SONY®

DIGITAL COLOR PRINTER

UP-D70/D70A

SERVICE MANUAL

Vol. 2 (1st Edition)

このマニュアルについて

本書の目的

本書はデジタルカラープリンターUP-D70/D70AのサービスマニュアルVol.2です。
本書では，半導体，補修部品表，ブロックダイヤグラム，マウント図，回路図を記載しています。

関連マニュアル

この「サービスマニュアルVol.2」の他に，下記のマニュアルが用意されています。

- **サービスマニュアルVol.1**
  部品番号：9-977-349-11（J向）
  本機の取扱説明，サービスインフォメーション，メカ動作説明，回路動作説明，サービスモード，トラブルシューティングを記載しています。

- **サービスマニュアル**
  UPK-8802RT（ラスターインターフェースキット）
  部品番号：9-974-788-01（J/CE向）

MANUAL STRUCTURE

Purpose of this manual

This manual is the Service Manual Vol.2 of the digital color printer UP-D70/D70A. This manual contains the semiconductor pin assignment, spare parts, block diagrams, circuit diagrams and mounted circuit boards.

Related manuals

In addition to this Service Manual Vol.2, the following manual is provided.

- **Service Manual Vol.1**
  Part No. 9-977-350-11 (for UC, CE)
  Contains the operating instructions, service information, mechanical operation, circuit operation description, service mode and trouble shooting.

- **Service Manual**
  UPK-8802RT (RASTER INTERFACE KIT)
  Part No. 9-974-788-01 (for J/CE)
  9-974-777-01 (for UC)

http://getMANUAL.com

TABLE OF CONTENTS

7. **SEMICONDUCTOR PIN ASSIGNMENTS** 7-1

8. **ELECTRICAL PARTS LIST**

8-1. Note on Spare Parts 8-1
8-1. 補修用部品注意事項 8-1

9. **SPARE PARTS**

9-1. Note on Spare Parts 9-1
9-1. 補修用部品注意事項 9-1
9-2. Exploded Views 9-2
- Front Panel, Cabinet Block 9-2
- Rear Panel, Chassis Block 9-3
- Mechanism Block (1) 9-4
- Mechanism Block (2) 9-5
- Mechanism Block (3) 9-6
- Mechanism Block (4) 9-7

10. **BLOCK DIAGRAM**

- Overall 10-2
- System Control 10-4
- Mechanism Interface 10-6

11. **PRINTED WIRING BOARDS AND SCHEMATIC DIAGRAMS**

- Harness 11-2
- MEC-11 Board 11-4
- SE-497, SE-498 and SE-504 Boards 11-6
- SE-502, SE-503, SE-505, SE-506, SE-507, SU-48, SU-49, SU-50, SU-51 Boards 11-7
- MEM-96 Board 11-8
- SY-270 Board 11-10
- PR-930038, PR-930039, PR-930040 and PR-930041 Boards 11-16

SECTION 7

SEMICONDUCTOR PIN ASSIGNMENTS

Semiconductors of which functions are equivalent are described here. For parts replacement, refer to the section of Spare Parts in this manual. The circuit diagram of each IC is obtained from the IC data book published by the manufacturer.

ここに記載されている半導体は，それぞれの機能を等価的に表したものです。　なお，互換性のない型名を併記していることがありますので，部品を交換するときは，Spare Partsの章を参照してください。
等価回路はICメーカーのデータブックに従いました。

DIODE	Page
10E-2	7-2
10E-2FD	7-2
1S2837-T1	7-2
1SS184	7-2

LED	Page
GL514A	7-2
TLN107A-B	7-2

TRANSISTOR	Page
2SB798-DL	7-2
2SB798-T1DK	7-2
2SC1623	7-2
2SC1623-T1L6	7-2
2SD999-CLCK	7-2
2SD999-T1-CLCK	7-2
DTC124EKA-T146	7-2
DTC143TKA-T146	7-2
PT501A	7-2
TPS607A-B	7-2

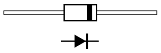
OTHERS	Page
GP1S54	7-2
GP2S40K	7-2

IC	Page
AM29F040B-120JC/T	7-10
CXD8636Q	7-3
CXD8736Q	7-3
CXD8865R	7-3
HD6413388F10	7-4
IDT71256SA20Y	7-5
IDT71256SA20Y-TL	7-5
LM358PS	7-4
LM358PS-E05	7-4
M24C08-BN6	7-5
M27C512-12F1	7-5
M54543L	7-6
M54544AL	7-6
M62352GP	7-6
M62352GP-75ED	7-6
PST572CMT	7-6
PST572CMT-T1	7-6
RPI-5100	7-6
RPI-5200	7-6
SLA7024M-871	7-7
SN74HC00ANS	7-7
SN74HC00ANS-E05	7-7
SN74HC02ANS	7-7
SN74HC02ANS-E05	7-7
SN74HC04ANS	7-7
SN74HC04ANS-E05	7-7
SN74HC08ANS	7-7
SN74HC08ANS-E05	7-7
SN74HC125ANS	7-7
SN74HC125ANS-E05	7-7
SN74HC138ANS	7-7
SN74HC138ANS-E05	7-7
SN74HC14ANS	7-7
SN74HC14ANS-E05	7-7
SN74HC157ANS	7-8
SN74HC157ANS-E05	7-8
SN74HC21ANS	7-8
SN74HC21ANS-E05	7-8
SN74HC244ANS	7-8
SN74HC244ANS-E05	7-8
SN74HC245ANS	7-8
SN74HC245ANS-E05	7-8

IC	Page
SN74HC32ANS	7-8
SN74HC32ANS-E05	7-8
SN74HC373ANS	7-9
SN74HC373ANS-E05	7-9
SN74HC4040ANS	7-9
SN74HC4040ANS-E05	7-9
SN74HC74ANS	7-8
SN74HC74ANS-E05	7-8
SN74HCU04ANS-E05	7-7
SN74HCU04ANS-E20	7-7
UPD71055GB-3B4	7-9

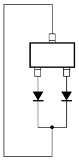
DIODE, LED, TRANSISTOR, OTHERS

DIODE



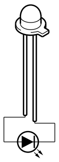
10E-2
10E-2FD

—TOP VIEW—

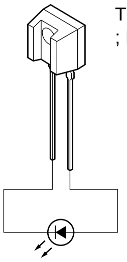


1S2837-T1
1SS184

LED



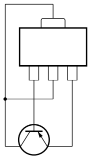
GL514A
; INFRARED



TLN107A-B
; INFRARED

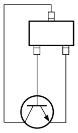
TRANSISTOR

—TOP VIEW—



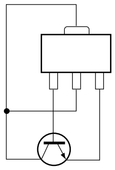
2SB798-DL
2SB798-T1DK

—TOP VIEW—



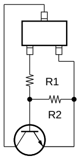
2SC1623
2SC1623-T1L6

—TOP VIEW—

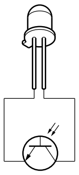


2SD999-CLCK
2SD999-T1-CLCK

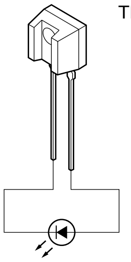
—TOP VIEW—



DTC124EKA-T146
(R1, R2=22 K)
DTC143TKA-T146
(ROHM) (R1=4.7 K, R2=OPEN)

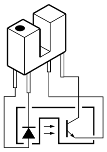


PT501A

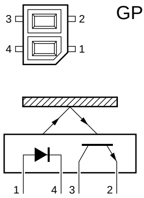


TPS607A-B

OTHERS



GP1S54



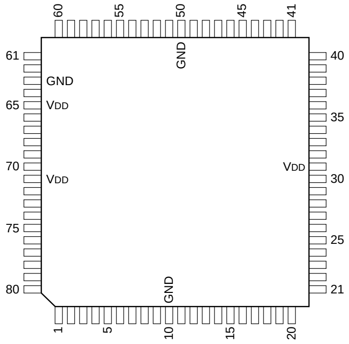
GP2S40K

IC

CXD8636Q (SONY)

C-MOS GATE ARRAY

—TOP VIEW—

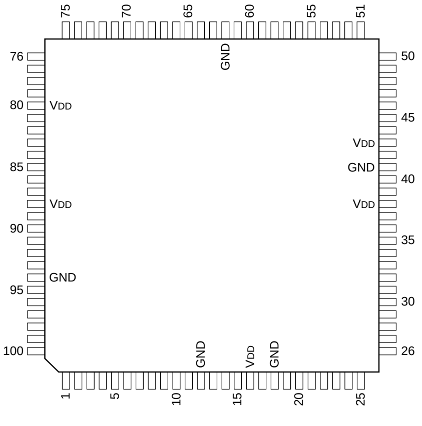

60
55
50
45
41
61
GND
GND
40
65
VDD
35
70
VDD
VDD
30
75
25
80
GND
21
1
5
10
15
20

PIN No.	I/O	SYMBOL	PIN No.	I/O	SYMBOL	PIN No.	I/O	SYMBOL	PIN No.	I/O	SYMBOL	PIN No.	I/O	SYMBOL
1	I	TSTSEL	17	O	TSTCOMPA5	33	O	TDATA9	49	I	DCLK	65	—	VDD
2	I	TSTLOAD	18	O	TSTCOMPA6	34	O	TDATA10	50	—	GND	66	I	ICSEL2
3	O	NHEADACTIVE	19	O	TSTCOMPA7	35	O	TDATA11	51	I	NDMAON	67	I	ICSEL1
4	O	PRINTPULSE	20	O	TDATA8	36	O	TDATA12	52	O	NDMAREQ	68	I	ICSEL0
5	I	PORTENABLE0	21	O	HDDATA1	37	O	TDATA13	53	O	TDATA14	69	O	NCLATCH
6	I	PORTENABLE1	22	O	HDDATA2	38	I	NRESET	54	O	TDATA15	70	O	NUMBER0
7	I	PORTENABLE2	23	O	HDDATA3	39	I	NHEADACTIVEF	55	I	TADD2	71	—	VDD
8	I	PRINTTYPE0	24	O	HDDATA4	40	I	PRINTPULSEF	56	I	TADD3	72	O	NUMBER1
9	I	PRINTTYPE1	25	O	HDDATA5	41	I	DATA7	57	I	PRINTPULSEI	73	O	NUMBER2
10	—	GND	26	O	HDDATA6	42	I	DATA6	58	I	NHEADACTIVEI	74	O	NUMBER3
11	I	TESTSEL	27	O	HDDATA7	43	I	DATA5	59	I	TADD4	75	O	NUMBER4
12	O	TSTCOMPA0	28	O	HDDATA8	44	I	DATA4	60	I	TADD5	76	O	NUMBER5
13	O	TSTCOMPA1	29	O	NHDLATCH	45	I	DATA3	61	I	TADD6	77	O	NUMBER6
14	O	TSTCOMPA2	30	O	HDCLK	46	I	DATA2	62	I	CLK1S4	78	O	NUMBER7
15	O	TSTCOMPA3	31	—	VDD	47	I	DATA1	63	—	GND	79	O	NUMBER8
16	O	TSTCOMPA4	32	O	NHDSTB	48	I	DATA0	64	I	CLK	80	O	NUMBER9

CXD8865R (SONY)

C-MOS GATE ARRAY

—TOP VIEW—

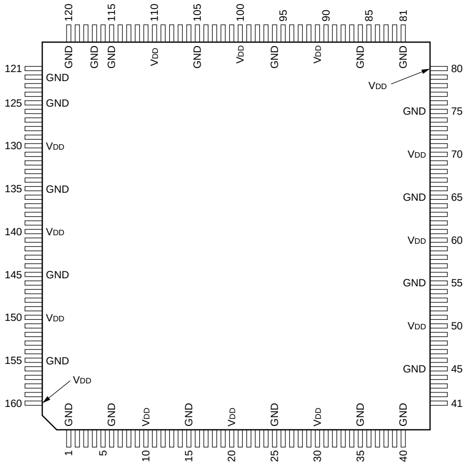

75
70
65
60
55
51
76
GND
50
80
VDD
45
VDD
85
GND
40
VDD
VDD
90
35
95
GND
30
100
GND
VDD
GND
26
1
5
10
15
20
25

PIN No.	I/O	SIGNAL	PIN No.	I/O	SIGNAL	PIN No.	I/O	SIGNAL	PIN No.	I/O	SIGNAL	PIN No.	I/O	SIGNAL
1	I	D46	21	I	D24	41	—	GND	61	I	A7	81	O	XTALH
2	I	D45	22	I	D23	42	O	CLK2	62	—	GND	82	I	P
3	I	D44	23	I	D22	43	—	VDD	63	I	A6	83	O	TEST0
4	I	D43	24	I	D21	44	O	CLK4	64	I	A5	84	O	TEST1
5	I	D42	25	I	D20	45	I	LINN	65	I	A4	85	I	OSC0
6	I	D41	26	I	HEADACTN	46	I	ONNOFF	66	I	A3	86	I	OSC1
7	I	D40	27	I	PRINTPLS	47	I	S2	67	I	A2	87	I	XCLOCK
8	I	D36	28	I	D16	48	I	S1	68	I	A1	88	—	VDD
9	I	D35	29	I	D15	49	I	S0	69	I	A0	89	O	XOUTM
10	I	D34	30	I	D14	50	I	REN	70	I	RESETN	90	I	XINM
11	I	D33	31	I	D13	51	I	WEN	71	O	OUT7	91	I	RCLKSEL
12	—	GND	32	I	D12	52	I/O	D7	72	O	OUT6	92	O	XOUTH
13	I	D32	33	I	D11	53	I/O	D6	73	O	OUT5	93	I	XINH
14	I	D31	34	I	D10	54	I/O	D5	74	O	OUT4	94	—	GND
15	I	D30	35	I	LATCHN	55	I/O	D4	75	O	OUT3	95	O	TEST2
16	—	VDD	36	O	TEST7	56	I/O	D3	76	O	OUT2	96	O	TEST3
17	O	STBN	37	O	TEST8	57	I/O	D2	77	O	OUT1	97	O	TEST4
18	—	GND	38	—	VDD	58	I/O	D1	78	O	OUT0	98	O	TEST5
19	I	D26	39	O	TEST9	59	I/O	D0	79	O	XTALM	99	O	TEST6
20	I	D25	40	O	CLK	60	I	A8	80	—	VDD	100	O	RSTNOUT

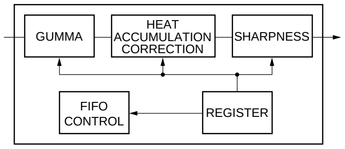
CXD8736Q (SONY)

C-MOS PICTURE QUALITY CONTROL

—TOP VIEW—

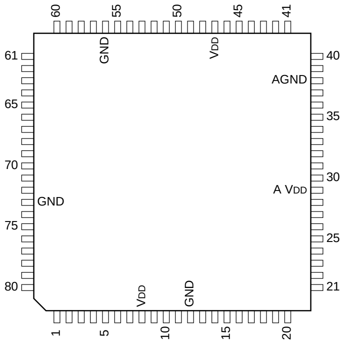

120
115
110
105
100
95
90
85
81
GND
GND
GND
VDD
GND
VDD
GND
VDD
GND
GND
121
GND
80
VDD
125
GND
GND
75
130
VDD
VDD
70
135
GND
GND
65
140
VDD
VDD
60
145
GND
GND
55
150
VDD
VDD
50
155
GND
GND
45
VDD
160
41
GND
GND
VDD
GND
VDD
GND
VDD
GND
GND
1
5
10
15
20
25
30
35
40

PIN NO.	I/O	SIGNAL	PIN NO.	I/O	SIGNAL	PIN NO.	I/O	SIGNAL	PIN NO.	I/O	SIGNAL
1	—	GND	41	I	FQDATA7	81	—	GND	121	I	PRPULI
2	I	FMYDATA7	42	I	FQDATA6	82	I/O	DB7	122	—	GND
3	I	FMYDATA6	43	I	FQDATA5	83	I/O	DB6	123	I	NHACTI
4	I	FMYDATA5	44	I	FQDATA4	84	I/O	DB5	124	I	PREHEATI
5	I	FMYDATA4	45	—	GND	85	I/O	DB4	125	—	GND
6	—	GND	46	I	FQDATA3	86	—	GND	126	O	NHACT0
7	I	FMYDATA3	47	I	FQDATA2	87	I/O	DB3	127	O	PRPULO
8	I	FMYDATA2	48	I	FQDATA1	88	I/O	DB2	128	O	DCK
9	I	FMYDATA1	49	I	FQDATA0	89	I/O	DB1	129	O	CK2M
10	—	VDD	50	—	VDD	90	I/O	DB0	130	—	VDD
11	I	FMYDATA0	51	O	RRES	91	—	VDD	131	O	CTOUT11
12	I	FMYDCK	52	O	WRES	92	O	TEOUT3	132	O	CTOUT10
13	O	FMYDREQ	53	O	RCK	93	O	TEOUT2	133	O	CTOUT9
14	O	EXTEST4	54	O	WCK	94	O	TEOUT1	134	O	CTOUT8
15	—	GND	55	—	GND	95	O	TEOUT0	135	—	GND
16	O	FDATA7	56	O	WEODD	96	—	GND	136	O	CTOUT7
17	O	FDATA6	57	O	WEEVEN	97	O	PRDCK	137	O	CTOUT6
18	O	FDATA5	58	O	RDODD	98	O	PRDACT	138	O	CTOUT5
19	O	FDATA4	59	O	RDEVEN	99	I	PRDREQ	139	O	CTOUT4
20	—	VDD	60	—	VDD	100	—	VDD	140	—	VDD
21	O	FDATA3	61	I	AHI2	101	O	PRDATA7	141	O	CTOUT3
22	O	FDATA2	62	I	AHI1	102	O	PRDATA6	142	O	CTOUT2
23	O	FDATA1	63	I	AHI0	103	O	PRDATA5	143	O	CTOUT1
24	O	FDATA0	64	I	GCS	104	O	PRDATA4	144	O	CTOUT0
25	—	GND	65	—	GND	105	—	GND	145	—	GND
26	I	TESTIN11	66	I	REGCS	106	O	PRDATA3	146	O	TEOUT15
27	I	TESTIN10	67	I	RDB	107	O	PRDATA2	147	O	TEOUT14
28	I	TESTIN9	68	I	WRB	108	O	PRDATA1	148	O	TEOUT13
29	I	TESTIN8	69	I	ADB8	109	O	PRDATA0	149	O	TEOUT12
30	—	VDD	70	—	VDD	110	—	VDD	150	—	VDD
31	I	TESTIN7	71	I	ADB7	111	I	EXTEST3	151	O	TEOUT11
32	I	TESTIN6	72	I	ADB6	112	I	EXTEST2	152	O	TEOUT10
33	I	TESTIN5	73	I	ADB5	113	I	EXTEST1	153	O	TEOUT9
34	I	TESTIN4	74	I	ADB4	114	I	EXTEST0	154	O	TEOUT8
35	—	GND	75	—	GND	115	—	GND	155	—	GND
36	I	TESTIN3	76	I	ADB3	116	I	CK20M	156	O	TEOUT7
37	I	TESTIN2	77	I	ADB2	117	—	GND	157	O	TEOUT6
38	I	TESTIN1	78	I	ADB1	118	I	HRESB	158	O	TEOUT5
39	I	TESTIN0	79	I	ADB0	119	I	RESB	159	O	TEOUT4
40	—	GND	80	—	VDD	120	—	GND	160	—	VDD


GUMMA
HEAT ACCUMULATION CORRECTION
SHARPNESS
FIFO CONTROL
REGISTER

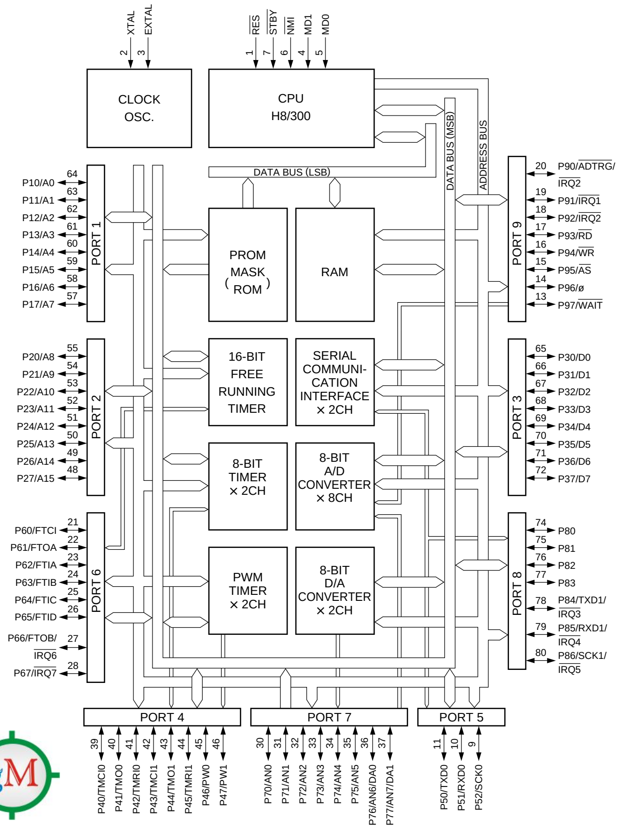
HD6413388F10 (HITACHI)

C-MOS 8-BIT SIGNAL CHIP MICRO COMPUTER
—TOP VIEW—



60
55
50
45
41
61
65
70
75
80
40
35
30
25
21
1
5
10
15
20
GND
VDD
AGND
A VDD
GND
VDD
GND

PIN No.	I/O	SIGNAL	PIN No.	I/O	SIGNAL	PIN No.	I/O	SIGNAL	PIN No.	I/O	SIGNAL
1	I	RES	21	I/O	P60/FTCI	41	I/O	P42/TMRI0	61	I/O	P13/A3
2	I	XTAL	22	I/O	P61/FTOA	42	I/O	P43/TMCI1	62	I/O	P12/A2
3	I	EXTAL	23	I/O	P62/FTIA	43	I/O	P44/TMO1	63	I/O	P11/A1
4	I	MD1	24	I/O	P63/FTIB	44	I/O	P45/TMRI1	64	I/O	P10/A0
5	I	MD0	25	I/O	P64/FTIC	45	I/O	P46/PW0	65	I/O	P30/D0
6	I	NMI	26	I/O	P65/FTID	46	I/O	P47/PW1	66	I/O	P31/D1
7	I	STBY	27	I/O	P66/FTOB/IRQ6	47	—	VDD	67	I/O	P32/D2
8	—	VDD	28	I/O	P67/IRQ7	48	I/O	P27/A15	68	I/O	P33/D3
9	I/O	P52/SCK0	29	—	AVDD	49	I/O	P26/A14	69	I/O	P34/D4
10	I/O	P51/RXD0	30	I/O	P70/AN0	50	I/O	P25/A13	70	I/O	P35/D5
11	I/O	P50/TXD0	31	I/O	P71/AN1	51	I/O	P24/A12	71	I/O	P36/D6
12	—	GND	32	I	P72/AN2	52	I/O	P23/A11	72	I/O	P37/D7
13	I/O	P97/WAIT	33	I	P73/AN3	53	I/O	P22/A10	73	—	GND
14	I/O	P96/ø	34	I	P74/AN4	54	I/O	P21/A9	74	I/O	P80
15	I/O	P95/AS	35	I	P75/AN5	55	I/O	P20/A8	75	I/O	P81
16	I/O	P94/WR	36	I	P76/AN6/DA0	56	—	GND	76	I/O	P82
17	I/O	P93/RD	37	I	P77/AN7/DA1	57	I/O	P17/A7	77	I/O	P83
18	I/O	P92/IRQ2	38	—	AGND	58	I/O	P16/A6	78	I/O	P84/TXD1/IRQ3
19	I/O	P91/IRQ1	39	I/O	P40/TMCI0	59	I/O	P15/A5	79	I/O	P85/RXD1/IRQ4
20	I/O	P90/ADTRG/IRQ2	40	I/O	P41/TMO0	60	I/O	P14/A4	80	I/O	P86/SCK1/IRQ5



XTAL
EXTAL
2
3
RES
STBY
NMI
MD1
MD0
1
7
6
4
5
CLOCK OSC.
CPU H8/300
DATA BUS (LSB)
DATA BUS (MSB)
ADDRESS BUS
PROM MASK (ROM)
RAM
16-BIT FREE RUNNING TIMER
SERIAL COMMUNI-CATION INTERFACE × 2CH
8-BIT TIMER × 2CH
8-BIT A/D CONVERTER × 8CH
PWM TIMER × 2CH
8-BIT D/A CONVERTER × 2CH
PORT 1
PORT 2
PORT 6
PORT 9
PORT 3
PORT 8
PORT 4
PORT 7
PORT 5
P10/A0 64
P11/A1 63
P12/A2 62
P13/A3 61
P14/A4 60
P15/A5 59
P16/A6 58
P17/A7 57
P20/A8 55
P21/A9 54
P22/A10 53
P23/A11 52
P24/A12 51
P25/A13 50
P26/A14 49
P27/A15 48
P60/FTCI 21
P61/FTOA 22
P62/FTIA 23
P63/FTIB 24
P64/FTIC 25
P65/FTID 26
P66/FTOB/IRQ6 27
P67/IRQ7 28
20 P90/ADTRG/IRQ2
19 P91/IRQ1
18 P92/IRQ2
17 P93/RD
16 P94/WR
15 P95/AS
14 P96/ø
13 P97/WAIT
65 P30/D0
66 P31/D1
67 P32/D2
68 P33/D3
69 P34/D4
70 P35/D5
71 P36/D6
72 P37/D7
74 P80
75 P81
76 P82
77 P83
78 P84/TXD1/IRQ3
79 P85/RXD1/IRQ4
80 P86/SCK1/IRQ5
39 P40/TMCI0
40 P41/TMO0
41 P42/TMRI0
42 P43/TMCI1
43 P44/TMO1
44 P45/TMRI1
45 P46/PW0
46 P47/PW1
30 P70/AN0
31 P71/AN1
32 P72/AN2
33 P73/AN3
34 P74/AN4
35 P75/AN5
36 P76/AN6/DA0
37 P77/AN7/DA1
11 P50/TXD0
10 P51/RXD0
9 P52/SCK0

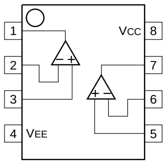
INPUT
ADTRG : A/D CONVERTER EXTERNAL TRIGGER
AN0 - AN7 : ANALOG
EXTAL : CRYSTAL OSCILLATOR
FTCI : FRT COUNTER CLOCK
FTIA-FTID : FRT INPUT CAPTURE
IRQ0 - IRQ7 : INTERRUPT REQUEST
MD0, MD1 : MODE
NMI : NON-MASKABLE INTERRUPT
P70 - P77 : PORT 7
RES : RESET
RXD0, RXD1 : RECEIVE DATA
STBY : STANDBY
TMCI0, TMCI1 : 8-BIT TIMER CLOCK
TMRI0, TMRI1 : 8-BIT TIMER COUNTER RESET
WAIT : WAIT
XTAL : CRYSTAL OSCILLATOR
ø : SYSTEM CLOCK

OUTPUT
A0 - A15 : ADDRESS BUS
AS : ADDRESS STROBE
DA0, DA1 : ANALOG
FTOA, FTOB : FRT OUTPUT COMPARE
PW0, PW1 : PWM TIMER
RD : READ
TMO0,TMO1 : 8-BIT TIMER
TXD0,TXD1 : TRANSCEIVER DATA
WR : WRITE

INPUT/OUTPUT
D0 - D7 : DATA BUS
P10 - P17 : PORT 1
P20 - P27 : PORT 2
P30 - P37 : PORT 3
P40 - P47 : PORT 4
P50 - P52 : PORT 5
P60 - P67 : PORT 6
P80 - P86 : PORT 8
P90 - P97 : PORT 9
SCK0, SCK1 : SERIAL CLOCK

LM358PS (TI) FLAT PACKAGE
LM358PS-E05

DUAL OPERATIONAL AMPLIFIERS
(SINGLE-SUPPLY TYPE)
—TOP VIEW—

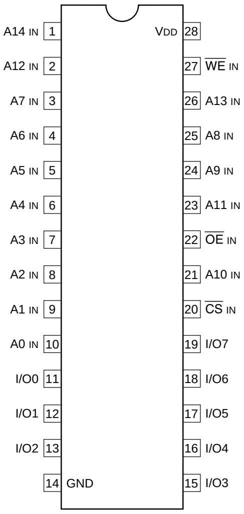


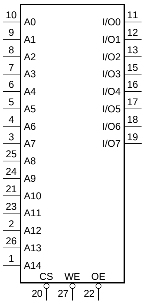
1
2
3
4
VEE
VCC
8
7
6
5

IDT71256SA20Y (IDT)
IDT71256SA20Y-TL

C-MOS 256 K (32 K × 8)-BIT SRAM

—TOP VIEW—


A14 IN 1
A12 IN 2
A7 IN 3
A6 IN 4
A5 IN 5
A4 IN 6
A3 IN 7
A2 IN 8
A1 IN 9
A0 IN 10
I/O0 11
I/O1 12
I/O2 13
14 GND
VDD 28
27 $\overline{WE}$ IN
26 A13 IN
25 A8 IN
24 A9 IN
23 A11 IN
22 $\overline{OE}$ IN
21 A10 IN
20 $\overline{CS}$ IN
19 I/O7
18 I/O6
17 I/O5
16 I/O4
15 I/O3


10 A0
9 A1
8 A2
7 A3
6 A4
5 A5
4 A6
3 A7
25 A8
24 A9
21 A10
23 A11
2 A12
26 A13
1 A14
I/O0 11
I/O1 12
I/O2 13
I/O3 15
I/O4 16
I/O5 17
I/O6 18
I/O7 19
CS 20
WE 27
OE 22

INPUT

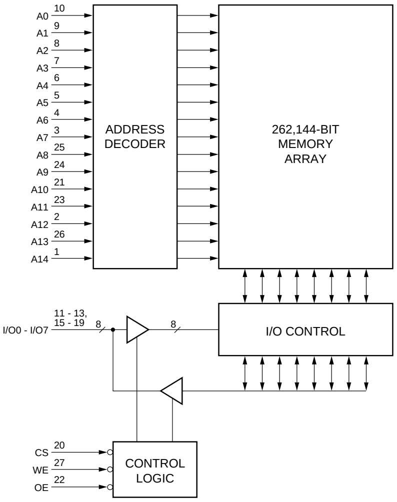
A0 - A14	:	ADDRESS
CS	:	CHIP SELECT
OE	:	OUTPUT ENABLE

INPUT/OUTPUT

I/O0 - I/O7 : DATA

CS	OE	WE	OUTPUTS	FUNCTION
1	×	×	HI-Z	NO SELECTION
0	1	1	HI-Z	OUTPUT DISABLE
0	0	1	DOUT	READ
0	×	0	DIN	WRITE

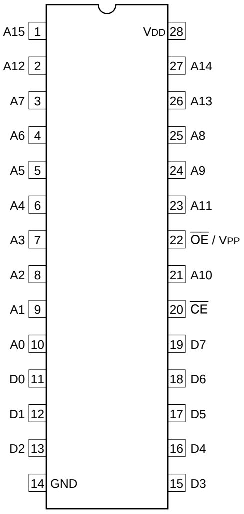
0	:	LOW LEVEL
1	:	HIGH LEVEL
×	:	DON'T CARE
HI-Z	:	HIGH IMPEDANCE

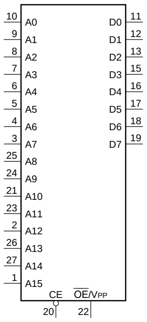

A0 10
A1 9
A2 8
A3 7
A4 6
A5 5
A6 4
A7 3
A8 25
A9 24
A10 21
A11 23
A12 2
A13 26
A14 1
ADDRESS DECODER
262,144-BIT MEMORY ARRAY
I/O0 - I/O7
11 - 13, 15 - 19
8
8
I/O CONTROL
CS 20
WE 27
OE 22
CONTROL LOGIC

M27C512-12F1 (SGS)

C-MOS 512 K (65,536 × 8)-BIT EPROM

—TOP VIEW—

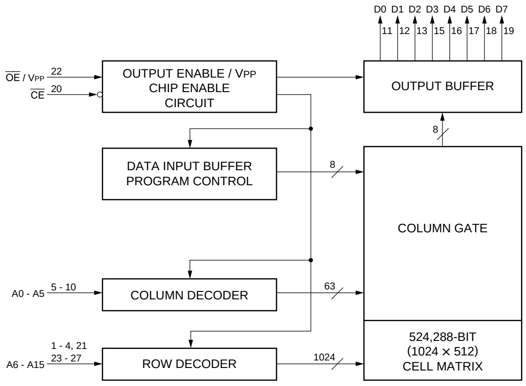

A15 1
A12 2
A7 3
A6 4
A5 5
A4 6
A3 7
A2 8
A1 9
A0 10
D0 11
D1 12
D2 13
14 GND
VDD 28
27 A14
26 A13
25 A8
24 A9
23 A11
22 $\overline{OE}$ / VPP
21 A10
20 $\overline{CE}$
19 D7
18 D6
17 D5
16 D4
15 D3


10 A0
9 A1
8 A2
7 A3
6 A4
5 A5
4 A6
3 A7
25 A8
24 A9
21 A10
23 A11
2 A12
26 A13
27 A14
1 A15
D0 11
D1 12
D2 13
D3 15
D4 16
D5 17
D6 18
D7 19
CE 20
$\overline{OE}$/VPP 22

A0 - A15	:	ADDRESS INPUTS
$\overline{CE}$	:	CHIP ENABLE INPUT
D0 - D7	:	DATA OUTPUTS
$\overline{OE}$	:	OUTPUT ENABLE INPUT
VPP	:	PROGRAM POWER SUPPLY

An	CE	$\overline{OE}$/VPP	VDD	Dn	FUNCTION
AIN	0	0	+5 V	DOUT	READ
AIN	0	1	+5 V	HI-Z	OUTPUT DISABLE
×	1	×	+5 V	HI-Z	STANDBY
AIN	0	+12.5 V	+6 V	DIN	PGM
AIN	0	0	+6 V	DOUT	PGM VERIFY
×	1	+12.5 V	+6 V	HI-Z	PGM INH

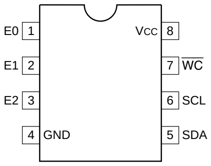
0	:	LOW LEVEL
1	:	HIGH LEVEL
×	:	DON'T CARE
HI-Z	:	HIGH IMPEDANCE


D0 D1 D2 D3 D4 D5 D6 D7
11 12 13 15 16 17 18 19
$\overline{OE}$ / VPP 22
$\overline{CE}$ 20
OUTPUT ENABLE / VPP CHIP ENABLE CIRCUIT
OUTPUT BUFFER
8
DATA INPUT BUFFER PROGRAM CONTROL
8
COLUMN GATE
A0 - A5 5 - 10
COLUMN DECODER
63
A6 - A15 1 - 4, 21 23 - 27
ROW DECODER
1024
524,288-BIT (1024 × 512) CELL MATRIX

M24C08-BN6 (SGS-THOM) (8 K-BIT)

C-MOS SERIAL I²C BUS EEPROM

—TOP VIEW—


E0 1
E1 2
E2 3
4 GND
VCC 8
7 $\overline{WC}$
6 SCL
5 SDA

INPUT

E0 - E2	:	CHIP ENABLE
SCL	:	SERIAL CLOCK
$\overline{WC}$	:	WRITE CONTROL

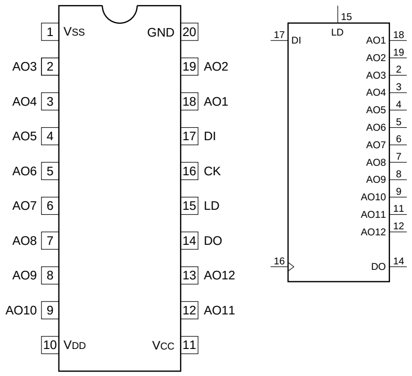
OUTPUT

SDA : SERIAL DATA ADDRESS

M62352GP (MITSUBISHI)FLAT PACKAGE
M62352GP-75ED

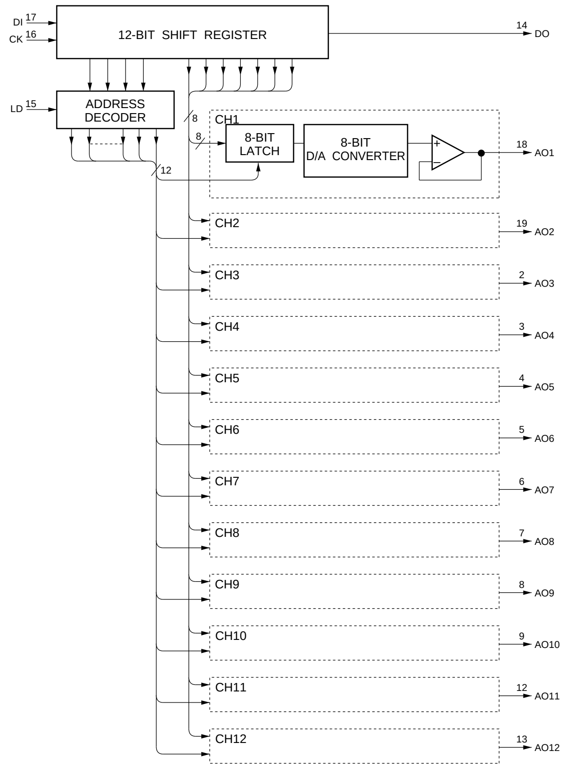
C-MOS 8-BIT × 12 CHANNEL D/A CONVERTER (WITH BUFFER OPERATIONAL AMPLIFIER)

—TOP VIEW—


1 VSS
GND 20
AO3 2
19 AO2
AO4 3
18 AO1
AO5 4
17 DI
AO6 5
16 CK
AO7 6
15 LD
AO8 7
14 DO
AO9 8
13 AO12
AO10 9
12 AO11
10 VDD
VCC 11
15
17 DI
LD
AO1 18
AO2 19
AO3 2
AO4 3
AO5 4
AO6 5
AO7 6
AO8 7
AO9 8
AO10 9
AO11 11
AO12 12
16
DO 14

AO1 - AO12 : 8-BIT D/A OUTPUTS
CK : CLOCK INPUT
DI : SERIAL DATA INPUT
DO : DATA OUTPUT

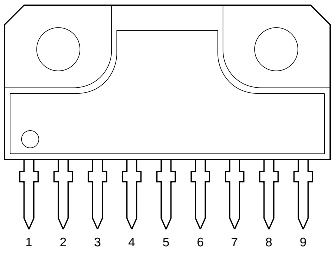
NOTE:
$3.5\ V < V_{DD} < V_{CC}$
$-3.5\ V < V_{SS} < V_{CC}$

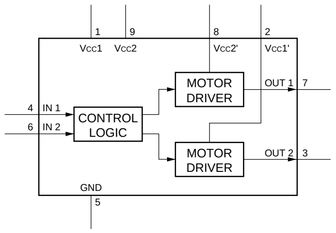

DI 17
CK 16
12-BIT SHIFT REGISTER
14 DO
LD 15
ADDRESS DECODER
8
8
CH1
8-BIT LATCH
8-BIT D/A CONVERTER
18 AO1
12
CH2
19 AO2
CH3
2 AO3
CH4
3 AO4
CH5
4 AO5
CH6
5 AO6
CH7
6 AO7
CH8
7 AO8
CH9
8 AO9
CH10
9 AO10
CH11
12 AO11
CH12
13 AO12

M54543L (MITSUBISHI)
M54544AL (MITSUBISHI)

BI-DIRECTIONAL MOTOR DRIVER

—SIDE VIEW—



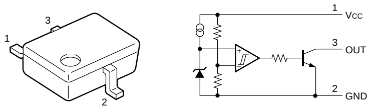

1
9
8
2
Vcc1
Vcc2
Vcc2'
Vcc1'
MOTOR DRIVER
OUT 1 7
4 IN 1
6 IN 2
CONTROL LOGIC
MOTOR DRIVER
OUT 2 3
GND
5

IN		OUT		MODE
1	2	1	2	
0	0	Z	Z	NO OPERATION
1	0	1	0	ROTATION
0	1	0	1	REVERSE ROTATION
1	1	0	0	BRAKE

0 ; LOW LEVEL
1 ; HIGH LEVEL
Z ; HIGH IMPEDANCE

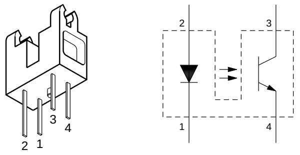
PST572CMT (MITSUMI)V_S=4.5 V
PST572CMT-T1

VOLTAGE DETECTOR, SYSTEM RESET


3
1
2
1 Vcc
3 OUT
2 GND

RPI-5100 (ROHM)
RPI-5200 (ROHM)

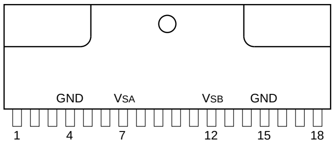
PHOTO INTERRUPTER

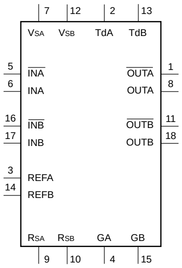


SLA7024M-871 (SANKEN)

STEPPING MOTOR UNIPOLAR DRIVING

—SIDE VIEW—

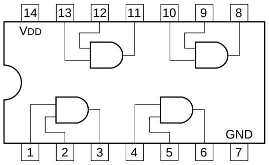

GND
VSA
VSB
GND
1
4
7
12
15
18

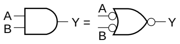

7
12
2
13
VSA
VSB
TdA
TdB
5
INA
6
INA
OUTA
1
OUTA
8
16
INB
17
INB
OUTB
11
OUTB
18
3
REFA
14
REFB
RSA
RSB
GA
GB
9
10
4
15

SN74HC08ANS (TI)FLAT PACKAGE
SN74HC08ANS-E05

C-MOS QUAD 2-INPUT AND GATES

—TOP VIEW—


14
13
12
11
10
9
8
VDD
GND
1
2
3
4
5
6
7



Y = A • B = $\overline{\overline{A} + \overline{B}}$

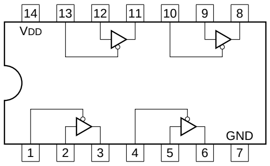
A	B	Y
0	0	0
0	1	0
1	0	0
1	1	1

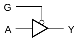
0 : LOW LEVEL
1 : HIGH LEVEL

SN74HC125ANS (TI)FLAT PACKAGE
SN74HC125ANS-E05

C-MOS BUS BUFFER GATES WITH 3-STATE OUTPUT

—TOP VIEW—


14
13
12
11
10
9
8
VDD
GND
1
2
3
4
5
6
7



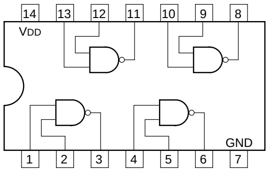
G	A	Y
0	0	0
0	1	1
1	×	HI-Z

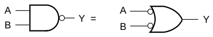
0 : LOW LEVEL
1 : HIGH LEVEL
× : DON'T CARE
HI-Z : HIGH IMPEDANCE

SN74HC00ANS (TI)FLAT PACKAGE
SN74HC00ANS-E05

C-MOS QUAD 2-INPUT NAND GATES

—TOP VIEW—


14
13
12
11
10
9
8
VDD
GND
1
2
3
4
5
6
7



Y = $\overline{A \cdot B} = \overline{A} + \overline{B}$

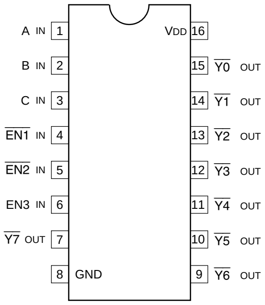
A	B	Y
0	0	1
0	1	1
1	0	1
1	1	0

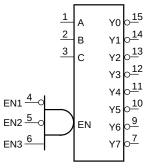
0 ; LOW LEVEL
1 ; HIGH LEVEL

SN74HC138ANS (TI)FLAT PACKAGE
SN74HC138ANS-E05

C-MOS 3-TO-8 LINE DECODER/DEMULTIPLEXER

—TOP VIEW—


A IN 1
B IN 2
C IN 3
EN1 IN 4
EN2 IN 5
EN3 IN 6
Y7 OUT 7
8 GND
VDD 16
15 Y0 OUT
14 Y1 OUT
13 Y2 OUT
12 Y3 OUT
11 Y4 OUT
10 Y5 OUT
9 Y6 OUT


1
A
2
B
3
C
EN1 4
EN2 5
EN3 6
EN
Y0 15
Y1 14
Y2 13
Y3 12
Y4 11
Y5 10
Y6 9
Y7 7

INPUTS				OUTPUTS							
EN	C	B	A	Y7	Y6	Y5	Y4	Y3	Y2	Y1	Y0
0	×	×	×	1	1	1	1	1	1	1	1
1	0	0	0	1	1	1	1	1	1	1	0
1	0	0	1	1	1	1	1	1	1	0	1
1	0	1	0	1	1	1	1	1	0	1	1
1	0	1	1	1	1	1	1	0	1	1	1
1	1	0	0	1	1	1	0	1	1	1	1
1	1	0	1	1	1	0	1	1	1	1	1
1	1	1	0	1	0	1	1	1	1	1	1
1	1	1	1	0	1	1	1	1	1	1	1

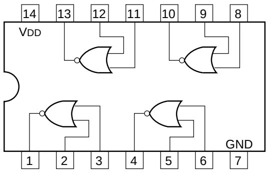
EN = $\overline{EN1} \cdot \overline{EN2} \cdot EN3$

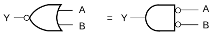
0 : LOW LEVEL
1 : HIGH LEVEL
× : DON'T CARE

SN74HC02ANS (TI)FLAT PACKAGE
SN74HC02ANS-E05

C-MOS QUAD 2-INPUT NOR GATES

—TOP VIEW—


14
13
12
11
10
9
8
VDD
GND
1
2
3
4
5
6
7



Y = $\overline{A + B} = \overline{A} \cdot \overline{B}$

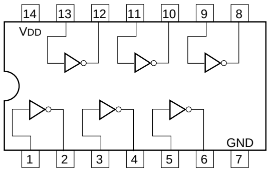
A	B	Y
0	0	1
0	1	0
1	0	0
1	1	0

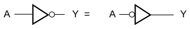
0 : LOW LEVEL
1 : HIGH LEVEL

SN74HC04ANS (TI)FLAT PACKAGE
SN74HC04ANS-E05
SN74HCU04ANS-E05
SN74HCU04ANS-E20 (TI)FLAT PACKAGE

C-MOS HEX INVERTERS

—TOP VIEW—


14
13
12
11
10
9
8
VDD
GND
1
2
3
4
5
6
7



Y = $\overline{A}$

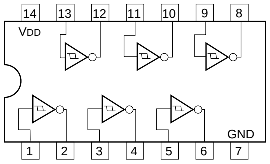
A	Y
0	1
1	0

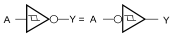
0 : LOW LEVEL
1 : HIGH LEVEL

SN74HC14ANS (TI)FLAT PACKAGE
SN74HC14ANS-E05

C-MOS HEX SCHMITT TRIGGER INVERTERS

—TOP VIEW—


14
13
12
11
10
9
8
VDD
GND
1
2
3
4
5
6
7



Y = $\overline{A}$

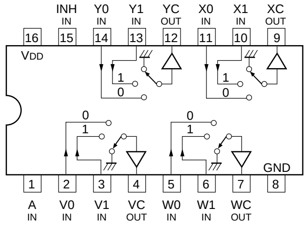
A	Y
0	1
1	0

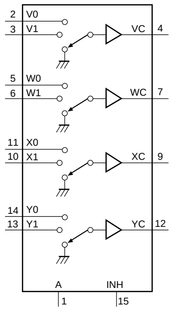
0 : LOW LEVEL
1 : HIGH LEVEL

SN74HC157ANS (TI)FLAT PACKAGE
SN74HC157ANS-E05

C-MOS QUAD 2-LINE-TO-1-LINE DATA SELECTOR/MULTIPLEXER

—TOP VIEW—


INH IN
Y0 IN
Y1 IN
YC OUT
X0 IN
X1 IN
XC OUT
16
15
14
13
12
11
10
9
VDD
1
0
GND
1
2
3
4
5
6
7
8
A IN
V0 IN
V1 IN
VC OUT
W0 IN
W1 IN
WC OUT


2 V0
3 V1
VC 4
5 W0
6 W1
WC 7
11 X0
10 X1
XC 9
14 Y0
13 Y1
YC 12
A
INH
1
15

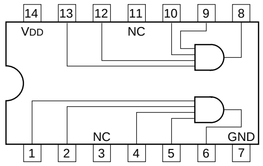
CONT. IN		ON CHANNEL
INH	A	
0	0	0
0	1	1
1	×	GND

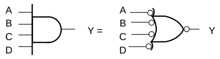
0 : LOW LEVEL
1 : HIGH LEVEL
× : DON'T CARE

SN74HC21ANS (TI)FLAT PACKAGE
SN74HC21ANS-E05

C-MOS DUAL 4-INPUT POSITIVE AND GATE

—TOP VIEW—


14
13
12
11
10
9
8
VDD
NC
NC
GND
1
2
3
4
5
6
7


A
B
C
D
Y =
A
B
C
D
Y

$Y = A \cdot B \cdot C \cdot D = \overline{\overline{A} + \overline{B} + \overline{C} + \overline{D}}$

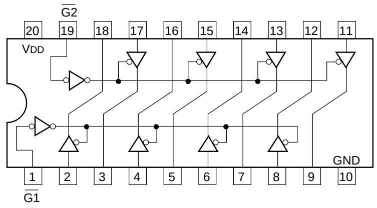
A	B	C	D	Y
0	0	0	0	0
0	0	0	1	0
0	0	1	0	0
0	0	1	1	0
0	1	0	0	0
⋮	⋮	⋮	⋮	⋮
1	1	0	1	0
1	1	1	0	0
1	1	1	1	1

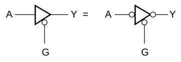
0 : LOW LEVEL
1 : HIGH LEVEL

SN74HC244ANS (TI)FLAT PACKAGE
SN74HC244ANS-E05

C-MOS BUS BUFFER WITH 3-STATE OUTPUTS

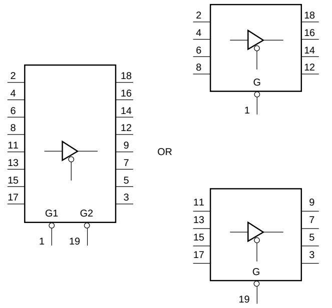
—TOP VIEW—


G2
20
19
18
17
16
15
14
13
12
11
VDD
GND
1
2
3
4
5
6
7
8
9
10
G1



G	A	Y
0	0	0
0	1	1
×	×	HI-Z

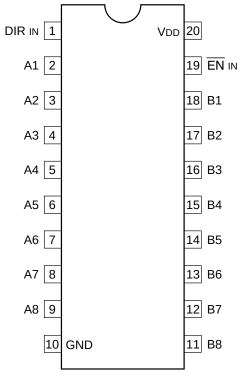
0 : LOW LEVEL
1 : HIGH LEVEL
× : DON'T CARE
HI-Z : HIGH IMPEDANCE

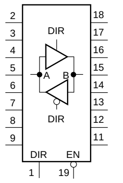

2
4
6
8
18
16
14
12
G
1
2
4
6
8
11
13
15
17
18
16
14
12
9
7
5
3
G1
G2
1
19
OR
11
13
15
17
9
7
5
3
G
19

SN74HC245ANS (TI)FLAT PACKAGE
SN74HC245ANS-E05

C-MOS BILATERAL BUS TRANSCEIVERS WITH 3-STATE OUTPUTS

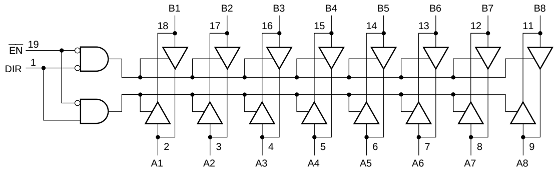
—TOP VIEW—


DIR IN 1
A1 2
A2 3
A3 4
A4 5
A5 6
A6 7
A7 8
A8 9
10 GND
VDD 20
19 EN IN
18 B1
17 B2
16 B3
15 B4
14 B5
13 B6
12 B7
11 B8


2
3
4
5
6
7
8
9
18
17
16
15
14
13
12
11
DIR
A
B
DIR
DIR
EN
1
19

$\overline{EN}$	DIR	OPERATION
0	0	B to A
0	1	A to B
1	×	HI-Z

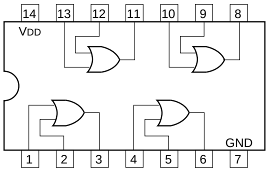
0 : LOW LEVEL
1 : HIGH LEVEL
× : DON'T CARE
HI-Z : HIGH IMPEDANCE

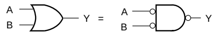

B1
B2
B3
B4
B5
B6
B7
B8
18
17
16
15
14
13
12
11
EN 19
DIR 1
2
3
4
5
6
7
8
9
A1
A2
A3
A4
A5
A6
A7
A8

SN74HC32ANS (TI)FLAT PACKAGE
SN74HC32ANS-E05

C-MOS QUAD 2-INPUT OR GATES

—TOP VIEW—


14
13
12
11
10
9
8
VDD
GND
1
2
3
4
5
6
7



$Y = A + B = \overline{\overline{A} \cdot \overline{B}}$

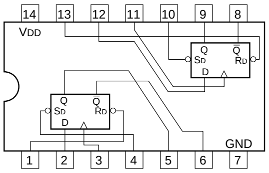
A	B	Y
0	0	0
0	1	1
1	0	1
1	1	1

0 : LOW LEVEL
1 : HIGH LEVEL

SN74HC74ANS (TI)FLAT PACKAGE
SN74HC74ANS-E05

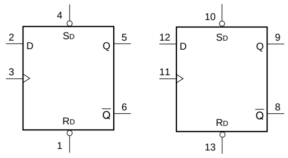
C-MOS DUAL D-TYPE FLIP-FLOPS WITH DIRECT SET/RESET

—TOP VIEW—


14
13
12
11
10
9
8
VDD
Q
Q
SD
RD
D
Q
Q
SD
RD
D
GND
1
2
3
4
5
6
7

INPUTS				OUTPUTS	
$\overline{S_D}$	$\overline{R_D}$	CK	D	Qn+1	$\overline{Qn+1}$
0	1	×	×	1	0
1	0	×	×	0	1
0	0	×	×	1	1
1	1	↑	1	1	0
1	1	↑	0	0	1
1	1	0	×	Qn	$\overline{Qn}$

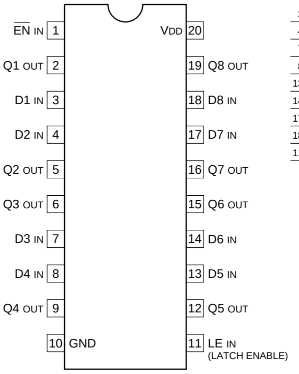
0 : LOW LEVEL
1 : HIGH LEVEL
× : DON'T CARE

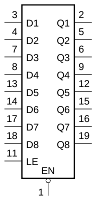

4
2
D
SD
Q
5
3
RD
Q
6
1
10
12
D
SD
Q
9
11
RD
Q
8
13

SN74HC373ANS (TI)FLAT PACKAGE
SN74HC373ANS-E05

C-MOS 3-STATE OUTPUT OCTAL LATCHES

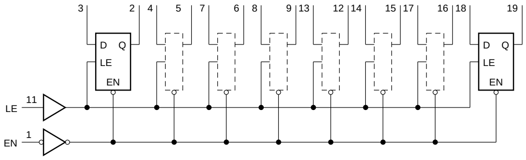
—TOP VIEW—


EN IN 1
Q1 OUT 2
D1 IN 3
D2 IN 4
Q2 OUT 5
Q3 OUT 6
D3 IN 7
D4 IN 8
Q4 OUT 9
10 GND
VDD 20
19 Q8 OUT
18 D8 IN
17 D7 IN
16 Q7 OUT
15 Q6 OUT
14 D6 IN
13 D5 IN
12 Q5 OUT
11 LE IN
(LATCH ENABLE)


3 D1 Q1 2
4 D2 Q2 5
7 D3 Q3 6
8 D4 Q4 9
13 D5 Q5 12
14 D6 Q6 15
17 D7 Q7 16
18 D8 Q8 19
11 LE
EN
1

INPUTS			OUT
EN	D	LE	Q
0	1	1	1
0	0	1	0
0	×	0	Qo
1	×	×	HI-Z

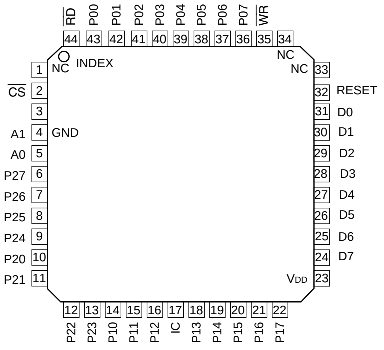
HI-Z : HIGH IMPEDANCE
0 : LOW LEVEL
1 : HIGH LEVEL
× : DON'T CARE

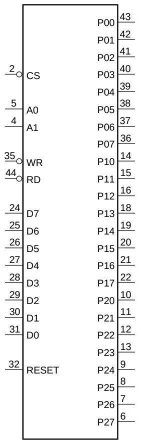

3
2
4
5
7
6
8
9
13
12
14
15
17
16
18
19
D Q
LE
EN
LE 11
EN 1

UPD71055GB-3B4 (NEC)FLAT PACKAGE

C-MOS PARALLEL INTERFACE UNIT

—TOP VIEW—


RD 44
P00 43
P01 42
P02 41
P03 40
P04 39
P05 38
P06 37
P07 36
WR 35
34
INDEX
NC 1
CS 2
3
A1 4 GND
A0 5
P27 6
P26 7
P25 8
P24 9
P20 10
P21 11
NC 33
32 RESET
31 D0
30 D1
29 D2
28 D3
27 D4
26 D5
25 D6
24 D7
VDD 23
12 P22
13 P23
14 P10
15 P11
16 P12
17 IC
18 P13
19 P14
20 P15
21 P16
22 P17


2 CS
5 A0
4 A1
35 WR
44 RD
24 D7
25 D6
26 D5
27 D4
28 D3
29 D2
30 D1
31 D0
32 RESET
P00 43
P01 42
P02 41
P03 40
P04 39
P05 38
P06 37
P07 36
P10 14
P11 15
P12 16
P13 18
P14 19
P15 20
P16 21
P17 22
P20 10
P21 11
P22 12
P23 13
P24 9
P25 8
P26 7
P27 6

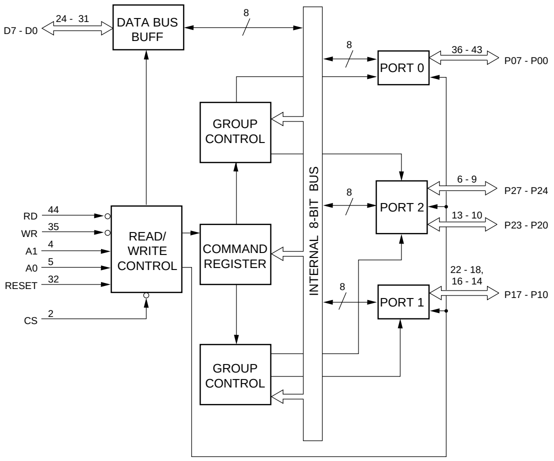
A1, A0 ; ADDRESS
CS ; CHIP SELECT
D7 - D0 ; DATA BUS
P07 - P00 ; PORT 0

P17 - P10 ; PORT 1
P27 - P20 ; PORT 2
RD ; READ STROBE
WR ; WRITE STROBE

IC ; INTERNALLY CONNECTED

CS	RD	WR	A1	A0	OPERATION	CPU ACTION
0	0	1	0	0	PORT0 → DATA • BUS	INPUT
0	0	1	0	1	PORT1 → DATA • BUS	INPUT
0	0	1	1	0	PORT2 → DATA • BUS	INPUT
0	0	1	1	1	DISABLE	
0	0	0	×	×		
0	1	0	0	0	DATA • BUS → PORT0	OUTPUT
0	1	0	0	1	DATA • BUS → PORT1	OUTPUT
0	1	0	1	0	DATA • BUS → PORT2	OUTPUT
0	1	0	1	1	DATA • BUS → COMMAND REGISTER	OUTPUT
0	1	1	×	×	HIGH IMPEDANCE	
1	×	×	×	×		

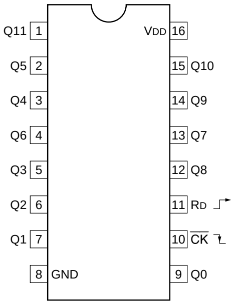
0 : LOW LEVEL
1 : HIGH LEVEL
× : DON'T CARE

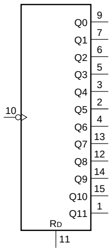

D7 - D0
24 - 31
DATA BUS BUFF
8
8
PORT 0
36 - 43
P07 - P00
GROUP CONTROL
6 - 9
P27 - P24
8
PORT 2
13 - 10
P23 - P20
RD 44
WR 35
A1 4
A0 5
RESET 32
CS 2
READ/ WRITE CONTROL
COMMAND REGISTER
INTERNAL 8-BIT BUS
8
PORT 1
22 - 18, 16 - 14
P17 - P10
GROUP CONTROL

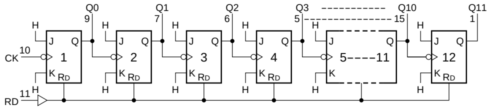
SN74HC4040ANS (TI)FLAT PACKAGE
SN74HC4040ANS-E05

C-MOS 12-STAGE RIPPLE CARRY BINARY COUNTER/DRIVER

—TOP VIEW—


Q11 1
Q5 2
Q4 3
Q6 4
Q3 5
Q2 6
Q1 7
8 GND
VDD 16
15 Q10
14 Q9
13 Q7
12 Q8
11 RD
10 CK
9 Q0


Q0 9
Q1 7
Q2 6
Q3 5
Q4 3
Q5 2
Q6 4
Q7 13
Q8 12
Q9 14
Q10 15
Q11 1
10
RD
11


Q0 9
Q1 7
Q2 6
Q3 5
Q10 15
Q11 1
H
J Q
K RD
1
2
3
4
5-----11
12
CK 10
RD 11

COUNT	Q11	Q10	Q9	Q8	Q7	Q6	Q5	Q4	Q3	Q2	Q1	Q0
0	0	0	0	0	0	0	0	0	0	0	0	0
1	0	0	0	0	0	0	0	0	0	0	0	1
2	0	0	0	0	0	0	0	0	0	0	1	0
3	0	0	0	0	0	0	0	0	0	0	1	1
¦	¦	¦	¦	¦	¦	¦	¦	¦	¦	¦	¦	¦
4095	1	1	1	1	1	1	1	1	1	1	1	1

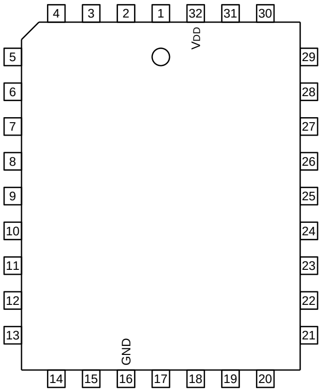
RD	Q11--------Q0
1	ALL LOW
0	COUNT

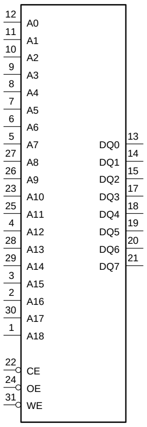
0 : LOW LEVEL
1 : HIGH LEVEL

AM29F040B-120JC/T (AMD)

C-MOS 4 M (524,288 × 8)-BIT SECTOR ERASE FLASH MEMORY

—TOP VIEW—


4
3
2
1
32
31
30
VDD
5
6
7
8
9
10
11
12
13
29
28
27
26
25
24
23
22
21
GND
14
15
16
17
18
19
20


12 A0
11 A1
10 A2
9 A3
8 A4
7 A5
6 A6
5 A7
27 A8
26 A9
23 A10
25 A11
4 A12
28 A13
29 A14
3 A15
2 A16
30 A17
1 A18
22 CE
24 OE
31 WE
DQ0 13
DQ1 14
DQ2 15
DQ3 17
DQ4 18
DQ5 19
DQ6 20
DQ7 21

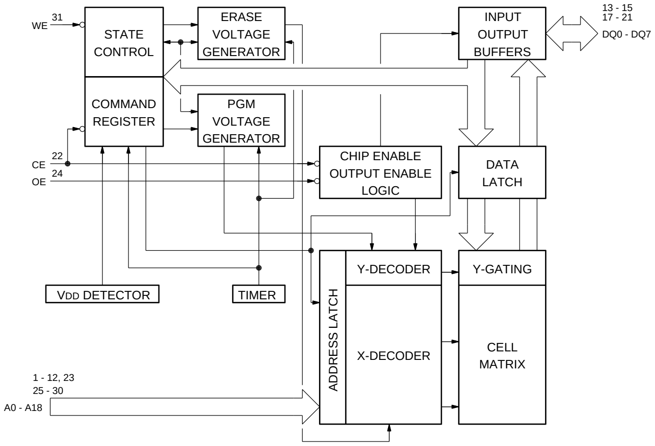
PIN No.	I/O	SIGNAL	PIN No.	I/O	SIGNAL
1	I	A18	17	I/O	DQ3
2	I	A16	18	I/O	DQ4
3	I	A15	19	I/O	DQ5
4	I	A12	20	I/O	DQ6
5	I	A7	21	I/O	DQ7
6	I	A6	22	I	$\overline{\text{CE}}$
7	I	A5	23	I	A10
8	I	A4	24	I	$\overline{\text{OE}}$
9	I	A3	25	I	A11
10	I	A2	26	I	A9
11	I	A1	27	I	A8
12	I	A0	28	I	A13
13	I/O	DQ0	29	I	A14
14	I/O	DQ1	30	I	A17
15	I/O	DQ2	31	I	$\overline{\text{WE}}$
16	—	GND	32	—	VDD

INPUT

A0 - A18 : ADDRESS INPUTS
$\overline{\text{CE}}$: CHIP ENABLE
$\overline{\text{OE}}$: OUTPUT ENABLE
$\overline{\text{WE}}$: WRITE ENABLE

INPUT/OUTPUT

DQ0 - DQ7 : DATA INPUT/OUTPUT


WE
31
STATE CONTROL
ERASE VOLTAGE GENERATOR
INPUT OUTPUT BUFFERS
13 - 15
17 - 21
DQ0 - DQ7
COMMAND REGISTER
PGM VOLTAGE GENERATOR
CE
22
OE
24
CHIP ENABLE OUTPUT ENABLE LOGIC
DATA LATCH
Y-DECODER
Y-GATING
VDD DETECTOR
TIMER
ADDRESS LATCH
X-DECODER
CELL MATRIX
1 - 12, 23
25 - 30
A0 - A18

SECTION 8
ELECTRICAL PARTS LIST

8-1. NOTES ON SPARE PARTS

(1) Safety Related Components Warning

Components marked ⚠ are critical to safe operation. Therefore, specified parts should be used in the case of replacement.

(2) Standardization of Parts

Spare parts supplied from Sony Parts Center may not be always identical with the parts which actually in use due to “accommodating the improved parts and/or engineering changes” or “standardization of genuine parts”.

This manual's exploded views and electrical spare parts list are indicating the part numbers of “the standardized genuine parts at present” .

(3) Stock of Parts

Parts marked with “o” SP (Supply Code) column of the spare parts list are not normally required for routine service work. Orders for parts marked with “o” will be processed, but allow for additional delivery time.

(4) Units for Capacitors, Inductors and Resistors

The following units are assumed in schematic diagrams, electrical parts list and exploded views unless otherwise specified.

Capacitors : μF
Inductors : μH
Resistors : Ω

8-1. 補修部品注意事項

1. 安全重要部品

⚠印のついた部品は安全性を維持するために重要な部品です。したがって，交換する時は必ず指定の部品を使ってください。

2. 部品の共通化

ソニーから供給する補修用部品は，セットに使われているものと異なることがあります。

これは部品の共通化，改良等によるものです。

部品表には現時点での共通化された補修用部品が記載されています。

3. 部品の在庫

部品表のSP (Supply code) 欄に “o” で示される部品は在庫していないことがあり，納期が長くなることがあります。

4. 単位の表記

下記の単位については，表記を変更または省略しています。

単位		表記
静電容量	μF	uF
インダクタンス	μH	uH
抵抗値	Ω	省略
温度	℃	×××-DEG-C

MEC-11 BOARD

Ref. No. or Q'ty	Part No.	SP	Description
1pc	A-8319-347-A	o	MOUNTED CIRCUIT BOARD, MEC-11
1pc	3-683-146-01	o	HEAT SINK (IC)
2pcs	7-682-646-09	s	SCREW +PS 3X5
C1	1-126-396-11	s	ELECT, CHIP 47uF 20% 16V
C2	1-163-038-91	s	CERAMIC, CHIP 0.1uF 25V
C3	1-126-391-11	s	ELECT, CHIP 47uF 20% 6.3V
C4	1-163-038-91	s	CERAMIC, CHIP 0.1uF 25V
C5	1-163-038-91	s	CERAMIC, CHIP 0.1uF 25V
C6	1-126-391-11	s	ELECT, CHIP 47uF 20% 6.3V
C7	1-126-391-11	s	ELECT, CHIP 47uF 20% 6.3V
C8	1-126-396-11	s	ELECT, CHIP 47uF 20% 16V
C101	1-163-275-11	s	CERAMIC, CHIP 0.001uF 5% 50V
C102	1-163-275-11	s	CERAMIC, CHIP 0.001uF 5% 50V
C103	1-164-161-11	s	CERAMIC, CHIP 0.0022uF 10% 100V
C104	1-164-161-11	s	CERAMIC, CHIP 0.0022uF 10% 100V
C105	1-128-403-11	s	ELECT 47uF 20% 35V
C106	1-128-403-11	s	ELECT 47uF 20% 35V
C107	1-126-396-11	s	ELECT, CHIP 47uF 20% 16V
C201	1-163-038-91	s	CERAMIC, CHIP 0.1uF 25V
C202	1-163-259-91	s	CERAMIC, CHIP 220PF 5% 50V
C203	1-163-259-91	s	CERAMIC, CHIP 220PF 5% 50V
C204	1-163-275-11	s	CERAMIC, CHIP 0.001uF 5% 50V
C205	1-163-275-11	s	CERAMIC, CHIP 0.001uF 5% 50V
C206	1-163-275-11	s	CERAMIC, CHIP 0.001uF 5% 50V
C207	1-163-038-91	s	CERAMIC, CHIP 0.1uF 25V
C208	1-163-038-91	s	CERAMIC, CHIP 0.1uF 25V
C209	1-163-038-91	s	CERAMIC, CHIP 0.1uF 25V
C210	1-163-038-91	s	CERAMIC, CHIP 0.1uF 25V
C211	1-163-038-91	s	CERAMIC, CHIP 0.1uF 25V
C212	1-163-038-91	s	CERAMIC, CHIP 0.1uF 25V
C213	1-163-038-91	s	CERAMIC, CHIP 0.1uF 25V
C214	1-163-038-91	s	CERAMIC, CHIP 0.1uF 25V
C215	1-163-038-91	s	CERAMIC, CHIP 0.1uF 25V
C216	1-163-038-91	s	CERAMIC, CHIP 0.1uF 25V
C217	1-163-038-91	s	CERAMIC, CHIP 0.1uF 25V
C218	1-163-038-91	s	CERAMIC, CHIP 0.1uF 25V
C219	1-164-161-11	s	CERAMIC, CHIP 0.0022uF 10% 100V
C220	1-163-038-91	s	CERAMIC, CHIP 0.1uF 25V
C221	1-163-038-91	s	CERAMIC, CHIP 0.1uF 25V
C222	1-163-038-91	s	CERAMIC, CHIP 0.1uF 25V
C223	1-163-038-91	s	CERAMIC, CHIP 0.1uF 25V
C224	1-163-038-91	s	CERAMIC, CHIP 0.1uF 25V
C225	1-163-038-91	s	CERAMIC, CHIP 0.1uF 25V
C226	1-163-275-11	s	CERAMIC, CHIP 0.001uF 5% 50V
C227	1-163-038-91	s	CERAMIC, CHIP 0.1uF 25V
CN401	1-764-782-11	o	HOUSING, CONNECTOR 24P
CN402	1-764-782-11	o	HOUSING, CONNECTOR 24P
CN403	1-560-894-00	o	PIN, CONNECTOR 6P
CN404	1-506-473-11	s	CONNECTOR, 8P, MALE
CN405	1-506-476-11	s	CONNECTOR, 11P, MALE
CN406	1-750-840-21	s	HOUSING, CONNECTOR 15P
CN407	1-564-005-11	o	CONNECTOR 6P, MALE
CN408	1-564-002-11	s	PIN, CONNECTOR 3P
CN409	1-506-468-11	s	CONNECTOR, 3P, MALE
CN410	1-506-474-11	s	CONNECTOR, 9P, MALE
D101	8-719-200-02	s	DIODE 10E-2
D102	8-719-200-02	s	DIODE 10E-2
D103	8-719-200-02	s	DIODE 10E-2
D104	8-719-200-02	s	DIODE 10E-2

(MEC-11 BOARD)

Ref. No. or Q'ty	Part No.	SP	Description
D105	8-719-200-02	s	DIODE 10E-2
D106	8-719-200-02	s	DIODE 10E-2
IC101	8-759-323-72	s	IC SLA7024M-871
IC102	8-759-600-24	s	IC M54543L
IC103	8-759-633-10	s	IC M54544AL
IC104	8-759-633-10	s	IC M54544AL
IC105	8-759-600-24	s	IC M54543L
IC106	8-759-633-10	s	IC M54544AL
IC201	8-759-527-71	s	IC M24C08-BN6
IC202	8-759-983-69	s	IC LM358PS
IC203	8-759-983-69	s	IC LM358PS
L1	1-424-653-11	s	COIL, CHOKE 10uH
Q101	8-729-140-75	s	TRANSISTOR 2SD999-CLCK
Q201	8-729-101-07	s	TRANSISTOR 2SB798
Q202	8-729-901-00	s	TRANSISTOR DTC124EK
Q203	8-729-120-28	s	TRANSISTOR 2SC1623-L5L6
Q204	8-729-120-28	s	TRANSISTOR 2SC1623-L5L6
Q205	8-729-120-28	s	TRANSISTOR 2SC1623-L5L6
R101	1-216-089-91	s	METAL, CHIP 47K 5% 1/10W
R102	1-216-089-91	s	METAL, CHIP 47K 5% 1/10W
R103	1-216-389-11	s	METAL 1 5% 3W
R104	1-216-057-00	s	METAL, CHIP 2.2K 5% 1/10W
R105	1-216-057-00	s	METAL, CHIP 2.2K 5% 1/10W
R106	1-216-389-11	s	METAL 1 5% 3W
R107	1-216-037-00	s	METAL, CHIP 330 5% 1/10W
R108	1-216-023-00	s	METAL, CHIP 82 5% 1/10W
R109	1-216-065-91	s	METAL, CHIP 4.7K 5% 1/10W
R110	1-216-065-91	s	METAL, CHIP 4.7K 5% 1/10W
R111	1-216-065-91	s	METAL, CHIP 4.7K 5% 1/10W
R112	1-216-065-91	s	METAL, CHIP 4.7K 5% 1/10W
R113	1-216-049-91	s	METAL, CHIP 1K 5% 1/10W
R114	1-216-049-91	s	METAL, CHIP 1K 5% 1/10W
R115	1-216-049-91	s	METAL, CHIP 1K 5% 1/10W
R116	1-216-049-91	s	METAL, CHIP 1K 5% 1/10W
R117	1-216-049-91	s	METAL, CHIP 1K 5% 1/10W
R118	1-216-049-91	s	METAL, CHIP 1K 5% 1/10W
R119	1-216-049-91	s	METAL, CHIP 1K 5% 1/10W
R120	1-216-049-91	s	METAL, CHIP 1K 5% 1/10W
R121	1-216-049-91	s	METAL, CHIP 1K 5% 1/10W
R122	1-216-049-91	s	METAL, CHIP 1K 5% 1/10W
R123	1-216-049-91	s	METAL, CHIP 1K 5% 1/10W
R124	1-218-236-91	s	METAL, CHIP 1 10% 1/4W
R125	1-218-236-91	s	METAL, CHIP 1 10% 1/4W
R126	1-218-236-91	s	METAL, CHIP 1 10% 1/4W
R127	1-218-236-91	s	METAL, CHIP 1 10% 1/4W
R201	1-216-065-91	s	METAL, CHIP 4.7K 5% 1/10W
R202	1-216-065-91	s	METAL, CHIP 4.7K 5% 1/10W
R203	1-216-073-00	s	METAL, CHIP 10K 5% 1/10W
R204	1-216-049-91	s	METAL, CHIP 1K 5% 1/10W
R205	1-216-037-00	s	METAL, CHIP 330 5% 1/10W
R206	1-216-689-11	s	METAL, CHIP 39K 0.5% 1/10W
R207	1-216-049-91	s	METAL, CHIP 1K 5% 1/10W
R208	1-216-037-00	s	METAL, CHIP 330 5% 1/10W
R209	1-216-689-11	s	METAL, CHIP 39K 0.5% 1/10W
R210	1-216-049-91	s	METAL, CHIP 1K 5% 1/10W
R211	1-216-037-00	s	METAL, CHIP 330 5% 1/10W
R212	1-216-689-11	s	METAL, CHIP 39K 0.5% 1/10W
R213	1-216-049-91	s	METAL, CHIP 1K 5% 1/10W

(MEC-11 BOARD)

Ref. No. or Q'ty	Part No.	SP	Description
R214	1-216-013-00	s	METAL, CHIP 33 5% 1/10W
R215	1-216-083-00	s	METAL, CHIP 27K 5% 1/10W
R216	1-216-049-91	s	METAL, CHIP 1K 5% 1/10W
R217	1-216-037-00	s	METAL, CHIP 330 5% 1/10W
R218	1-216-073-00	s	METAL, CHIP 10K 5% 1/10W
R219	1-216-049-91	s	METAL, CHIP 1K 5% 1/10W
R220	1-216-037-00	s	METAL, CHIP 330 5% 1/10W
R221	1-216-689-11	s	METAL, CHIP 39K 0.5% 1/10W
R222	1-216-049-91	s	METAL, CHIP 1K 5% 1/10W
R223	1-216-037-00	s	METAL, CHIP 330 5% 1/10W
R224	1-216-689-11	s	METAL, CHIP 39K 0.5% 1/10W
R225	1-216-049-91	s	METAL, CHIP 1K 5% 1/10W
R226	1-216-037-00	s	METAL, CHIP 330 5% 1/10W
R227	1-216-089-91	s	METAL, CHIP 47K 5% 1/10W
R228	1-216-049-91	s	METAL, CHIP 1K 5% 1/10W
R229	1-216-037-00	s	METAL, CHIP 330 5% 1/10W
R230	1-216-073-00	s	METAL, CHIP 10K 5% 1/10W
R231	1-216-049-91	s	METAL, CHIP 1K 5% 1/10W
R232	1-216-037-00	s	METAL, CHIP 330 5% 1/10W
R233	1-216-089-91	s	METAL, CHIP 47K 5% 1/10W
R234	1-216-049-91	s	METAL, CHIP 1K 5% 1/10W
R235	1-216-025-00	s	METAL, CHIP 100 5% 1/10W
R236	1-216-075-00	s	METAL, CHIP 12K 5% 1/10W
R237	1-216-049-91	s	METAL, CHIP 1K 5% 1/10W
R238	1-216-073-00	s	METAL, CHIP 10K 5% 1/10W
R239	1-216-049-91	s	METAL, CHIP 1K 5% 1/10W
R240	1-216-689-11	s	METAL, CHIP 39K 0.5% 1/10W
R241	1-216-049-91	s	METAL, CHIP 1K 5% 1/10W
R242	1-216-037-00	s	METAL, CHIP 330 5% 1/10W
R243	1-216-689-11	s	METAL, CHIP 39K 0.5% 1/10W
R244	1-216-049-91	s	METAL, CHIP 1K 5% 1/10W
R245	1-216-037-00	s	METAL, CHIP 330 5% 1/10W
R246	1-216-689-11	s	METAL, CHIP 39K 0.5% 1/10W
R247	1-216-049-91	s	METAL, CHIP 1K 5% 1/10W
R248	1-216-037-00	s	METAL, CHIP 330 5% 1/10W
R249	1-216-037-00	s	METAL, CHIP 330 5% 1/10W
R250	1-216-689-11	s	METAL, CHIP 39K 0.5% 1/10W
R251	1-216-049-91	s	METAL, CHIP 1K 5% 1/10W
R252	1-216-037-00	s	METAL, CHIP 330 5% 1/10W
R253	1-216-689-11	s	METAL, CHIP 39K 0.5% 1/10W
R254	1-216-049-91	s	METAL, CHIP 1K 5% 1/10W
R255	1-216-037-00	s	METAL, CHIP 330 5% 1/10W
R256	1-216-689-11	s	METAL, CHIP 39K 0.5% 1/10W
R257	1-216-049-91	s	METAL, CHIP 1K 5% 1/10W
R258	1-216-037-00	s	METAL, CHIP 330 5% 1/10W
R259	1-216-689-11	s	METAL, CHIP 39K 0.5% 1/10W
R260	1-216-049-91	s	METAL, CHIP 1K 5% 1/10W

MEM-96 BOARD

Ref. No. or Q'ty	Part No.	SP	Description
1pc	A-8319-383-A	o	MOUNTED CIRCUIT BOARD, MEM-96
C121	1-126-391-11	s	ELECT CHIP 47MF 20% 6.3V
C122	1-126-391-11	s	ELECT CHIP 47MF 20% 6.3V
C311	1-163-038-91	s	CERAMIC CHIP 0.1MF 25V
C312	1-163-038-91	s	CERAMIC CHIP 0.1MF 25V
C313	1-163-038-91	s	CERAMIC CHIP 0.1MF 25V
C314	1-163-038-91	s	CERAMIC CHIP 0.1MF 25V
C315	1-163-038-91	s	CERAMIC CHIP 0.1MF 25V
C321	1-163-038-91	s	CERAMIC CHIP 0.1MF 25V
C322	1-163-038-91	s	CERAMIC CHIP 0.1MF 25V
C323	1-163-038-91	s	CERAMIC CHIP 0.1MF 25V
C324	1-163-038-91	s	CERAMIC CHIP 0.1MF 25V
C325	1-163-038-91	s	CERAMIC CHIP 0.1MF 25V
C342	1-163-251-11	s	CERAMIC CHIP 100PF 5% 50V
C362	1-163-251-11	s	CERAMIC CHIP 100PF 5% 50V
CN204	1-770-208-11	o	CONNECTOR,BOARD TO BOARD (40P)
IC211	8-759-445-62	s	IC HM5116400BS7GSEL
IC212	8-759-445-62	s	IC HM5116400BS7GSEL
IC213	8-759-445-62	s	IC HM5116400BS7GSEL
IC214	8-759-445-62	s	IC HM5116400BS7GSEL
IC215	8-759-445-62	s	IC HM5116400BS7GSEL
IC221	8-759-445-62	s	IC HM5116400BS7GSEL
IC222	8-759-445-62	s	IC HM5116400BS7GSEL
IC223	8-759-445-62	s	IC HM5116400BS7GSEL
IC224	8-759-445-62	s	IC HM5116400BS7GSEL
IC225	8-759-445-62	s	IC HM5116400BS7GSEL
R342	1-216-025-91	s	RES,CHIP 100 5% 1/10W
R362	1-216-025-91	s	RES,CHIP 100 5% 1/10W

SE-497 BOARD

Ref. No. or Q'ty	Part No.	SP	Description
1pc	A-8319-364-A	o	MOUNTED CIRCUIT BOARD, SE-497
1pc	1-562-740-11	o	HOUSING, 7P
1pc	1-564-831-11	o	CONTACT, FEMALE
1pc	1-564-832-11	o	CONTACT
1pc	1-569-193-11	o	CONTACT, AWG24-30
1pc	1-569-199-11	o	PLUG HOUSING, 6P
2pcs	3-737-916-02	s	COVER, SENSOR
D101	8-719-049-46	s	DIODE TLN107A-B
Q101	8-729-027-69	s	TRANSISTOR TPS607A-B

SE-498 BOARD

Ref. No. or Q'ty	Part No.	SP	Description
1pc	A-8319-366-A	o	MOUNTED CIRCUIT BOARD, SE-498
1pc	3-614-326-01	s	PLATE, SUPPLY SENSOR
1pc	3-614-332-01	s	SPRING, HELICAL TORSION(P0)
PH108	8-749-014-55	s	IC RPI-5200

SE-502 BOARD

Ref. No. or Q'ty	Part No.	SP	Description
1pc	A-8319-361-A	o	MOUNTED CIRCUIT BOARD, SE-502
PH107	8-749-923-97	s	PHOTO INTERRUPTER GP2S40
W704	1-954-206-12	o	HARNESS, SUB (BCODE)

SE-503 BOARD

Ref. No. or Q'ty	Part No.	SP	Description
1pc	A-8319-368-A	o	MOUNTED CIRCUIT BOARD, SE-503
1pc	3-683-049-02	s	PLATE, EDGE SENSOR
1pc	3-683-129-02	s	SPRING, HELICAL TORSION
PH110	8-749-010-50	s	PHOTO INTERUPTER RPI-5100
W703	1-954-205-12	o	HARNESS, SUB (PEDGE)

SE-504 BOARD

Ref. No. or Q'ty	Part No.	SP	Description
1pc	A-8319-372-A	o	MOUNTED CIRCUIT BOARD, SE-504
PH111	8-719-939-05	s	PHOTOINTERRUPTER GP-1S54
PH112	8-719-939-05	s	PHOTOINTERRUPTER GP-1S54
PH113	8-719-939-05	s	PHOTOINTERRUPTER GP-1S54
TH101	1-807-796-11	s	THERMISTOR
W705	1-954-207-11	o	HARNESS, SUB (PSIZE)

SE-505 BOARD

Ref. No. or Q'ty	Part No.	SP	Description
1pc	A-8319-359-A	o	MOUNTED CIRCUIT BOARD, SE-505
PH101	8-719-939-05	s	PHOTOINTERRUPTER GP-1S54
PH102	8-719-939-05	s	PHOTOINTERRUPTER GP-1S54
PH114	8-719-939-05	s	PHOTOINTERRUPTER GP-1S54
W701	1-954-209-11	o	HARNESS, SUB (ARMLD)

SE-506 BOARD

Ref. No. or Q'ty	Part No.	SP	Description
1pc	A-8319-350-A	o	MOUNTED CIRCUIT BOARD, SE-506
CN705	1-506-481-11	s	CONNECTOR, 2P, MALE
CN706	1-564-718-11	s	CONNECTOR, 2P, MALE
CN707	1-766-901-11	s	CONNECTOR, FFC/FPC (ZIF) 15P
CN708	1-569-339-11	s	CONNECTOR, BOARD TO BOARD 7P
PH103	8-719-939-05	s	PHOTOINTERRUPTER GP-1S54
PH104	8-719-939-05	s	PHOTOINTERRUPTER GP-1S54
PH105	8-719-939-05	s	PHOTOINTERRUPTER GP-1S54
PH106	8-719-939-05	s	PHOTOINTERRUPTER GP-1S54
PH109	8-719-939-05	s	PHOTOINTERRUPTER GP-1S54

SE-507 BOARD

Ref. No. or Q'ty	Part No.	SP	Description
1pc	A-8319-352-A	o	MOUNTED CIRCUIT BOARD, SE-507
CN709	1-569-336-11	s	CONNECTOR, BOARD TO BOARD 7P
D102	8-719-049-47	s	DIODE GL514A
PH114	1-810-472-11	s	PHOTO SENSOR
Q102	8-719-988-59	s	PHOTO TRANSISTOR PT501A

SU-48 BOARD

Ref. No. or Q'ty	Part No.	SP	Description
1pc	1-670-414-11	o	PRINTED CIRCUIT BOARD, SU-48
C101	1-163-038-91	s	CERAMIC, CHIP 0.1uF 25V
CN701	1-506-467-11	s	CONNECTOR, 2P, MALE

SU-49 BOARD

Ref. No. or Q'ty	Part No.	SP	Description
1pc	1-670-415-11	o	PRINTED WIRING BOARD, SU-49
CN702	1-564-001-11	s	CONNECTOR, 2P, MALE

SU-50 BOARD

Ref. No. or Q'ty	Part No.	SP	Description
1pc	1-670-416-11	o	PRINTED WIRING BOARD, SU-50
C103	1-163-038-91	s	CERAMIC, CHIP 0.1uF 25V
CN703	1-506-467-11	s	CONNECTOR, 2P, MALE

SU-51 BOARD

Ref. No. or Q'ty	Part No.	SP	Description
1pc	1-670-417-11	o	PRINTED WIRING BOARD, SU-51
C104	1-163-038-91	s	CERAMIC, CHIP 0.1uF 25V
CN704	1-506-467-11	s	CONNECTOR, 2P, MALE

SY-270 BOARD

Ref. No. or Q'ty	Part No.	SP	Description
1pc	A-8319-374-A	o	MOUNTED CIRCUIT BOARD, SY-270
C1	1-163-021-11	s	CERAMIC, CHIP 0.01uF 10% 50V
C2	1-126-391-11	s	ELECT, CHIP 47uF 20% 6.3V
C3	1-126-391-11	s	ELECT, CHIP 47uF 20% 6.3V
C4	1-163-021-11	s	CERAMIC, CHIP 0.01uF 10% 50V
C5	1-126-396-11	s	ELECT, CHIP 47uF 20% 16V
C6	1-163-021-11	s	CERAMIC, CHIP 0.01uF 10% 50V
C7	1-128-403-11	s	ELECT 47uF 20% 35V
C8	1-163-021-11	s	CERAMIC, CHIP 0.01uF 10% 50V
C9	1-126-391-11	s	ELECT, CHIP 47uF 20% 6.3V
C11	1-126-391-11	s	ELECT, CHIP 47uF 20% 6.3V
C12	1-126-391-11	s	ELECT, CHIP 47uF 20% 6.3V
C101	1-163-038-91	s	CERAMIC, CHIP 0.1uF 25V
C102	1-163-038-91	s	CERAMIC, CHIP 0.1uF 25V
C103	1-163-038-91	s	CERAMIC, CHIP 0.1uF 25V
C104	1-163-038-91	s	CERAMIC, CHIP 0.1uF 25V
C105	1-163-038-91	s	CERAMIC, CHIP 0.1uF 25V
C106	1-163-038-91	s	CERAMIC, CHIP 0.1uF 25V
C107	1-163-038-91	s	CERAMIC, CHIP 0.1uF 25V
C108	1-163-038-91	s	CERAMIC, CHIP 0.1uF 25V
C109	1-163-038-91	s	CERAMIC, CHIP 0.1uF 25V
C110	1-163-038-91	s	CERAMIC, CHIP 0.1uF 25V
C112	1-163-038-91	s	CERAMIC, CHIP 0.1uF 25V
C113	1-163-038-91	s	CERAMIC, CHIP 0.1uF 25V
C122	1-163-251-11	s	CERAMIC, CHIP 100PF 5% 50V
C123	1-163-251-11	s	CERAMIC, CHIP 100PF 5% 50V
C124	1-163-251-11	s	CERAMIC, CHIP 100PF 5% 50V
C125	1-163-251-11	s	CERAMIC, CHIP 100PF 5% 50V
C126	1-163-263-11	s	CERAMIC, CHIP 330PF 5% 50V
C127	1-163-263-11	s	CERAMIC, CHIP 330PF 5% 50V
C128	1-163-263-11	s	CERAMIC, CHIP 330PF 5% 50V
C129	1-163-263-11	s	CERAMIC, CHIP 330PF 5% 50V
C130	1-163-263-11	s	CERAMIC, CHIP 330PF 5% 50V
C131	1-126-391-11	s	ELECT, CHIP 47uF 20% 6.3V
C132	1-163-021-11	s	CERAMIC, CHIP 0.01uF 10% 50V
C134	1-163-263-11	s	CERAMIC, CHIP 330PF 5% 50V
C201	1-163-038-91	s	CERAMIC, CHIP 0.1uF 25V
C202	1-163-038-91	s	CERAMIC, CHIP 0.1uF 25V
C203	1-163-038-91	s	CERAMIC, CHIP 0.1uF 25V
C204	1-163-038-91	s	CERAMIC, CHIP 0.1uF 25V
C205	1-163-038-91	s	CERAMIC, CHIP 0.1uF 25V
C206	1-163-038-91	s	CERAMIC, CHIP 0.1uF 25V
C207	1-163-038-91	s	CERAMIC, CHIP 0.1uF 25V
C208	1-163-038-91	s	CERAMIC, CHIP 0.1uF 25V
C209	1-163-038-91	s	CERAMIC, CHIP 0.1uF 25V
C210	1-163-038-91	s	CERAMIC, CHIP 0.1uF 25V
C211	1-163-038-91	s	CERAMIC, CHIP 0.1uF 25V
C224	1-128-235-11	s	ELECT, CHIP 0.47uF 20% 50V
C301	1-163-038-91	s	CERAMIC, CHIP 0.1uF 25V
C302	1-163-038-91	s	CERAMIC, CHIP 0.1uF 25V
C303	1-163-038-91	s	CERAMIC, CHIP 0.1uF 25V
C304	1-163-038-91	s	CERAMIC, CHIP 0.1uF 25V
C305	1-163-038-91	s	CERAMIC, CHIP 0.1uF 25V
C306	1-163-038-91	s	CERAMIC, CHIP 0.1uF 25V
C307	1-163-038-91	s	CERAMIC, CHIP 0.1uF 25V
C308	1-163-038-91	s	CERAMIC, CHIP 0.1uF 25V
C309	1-163-038-91	s	CERAMIC, CHIP 0.1uF 25V
C310	1-163-038-91	s	CERAMIC, CHIP 0.1uF 25V

(SY-270 BOARD)

Ref. No. or Q'ty	Part No.	SP	Description
C311	1-163-038-91	s	CERAMIC, CHIP 0.1uF 25V
C312	1-163-038-91	s	CERAMIC, CHIP 0.1uF 25V
C313	1-163-038-91	s	CERAMIC, CHIP 0.1uF 25V
C314	1-163-038-91	s	CERAMIC, CHIP 0.1uF 25V
C315	1-163-038-91	s	CERAMIC, CHIP 0.1uF 25V
CN1	1-770-308-11	o	HOUSING, CONNECTOR
CN2	1-770-308-11	o	HOUSING, CONNECTOR
CN3	1-770-308-11	o	HOUSING, CONNECTOR
CN4	1-764-829-11	o	CONNECTOR, FPC 24P
CN5	1-764-829-11	o	CONNECTOR, FPC 24P
CN6	1-568-165-11	s	CONNECTOR, FPC 22P
CN7	1-695-393-31	o	PIN, CONNECTOR 32P
CN10	1-564-035-11	o	PIN, CONNECTOR 10P
CNI205	1-526-659-00	o	SOCKET, IC 28P
D101	8-719-801-78	s	DIODE 1SS184
D201	8-719-801-78	s	DIODE 1SS184
FB101	1-414-598-11	s	INDUCTOR, FERRITE BEAD
FB102	1-414-598-11	s	INDUCTOR, FERRITE BEAD
FB103	1-414-598-11	s	INDUCTOR, FERRITE BEAD
FB104	1-414-598-11	s	INDUCTOR, FERRITE BEAD
FB105	1-414-598-11	s	INDUCTOR, FERRITE BEAD
FB106	1-414-598-11	s	INDUCTOR, FERRITE BEAD
FB107	1-414-598-11	s	INDUCTOR, FERRITE BEAD
FB108	1-414-598-11	s	INDUCTOR, FERRITE BEAD
FB109	1-414-598-11	s	INDUCTOR, FERRITE BEAD
FB110	1-414-598-11	s	INDUCTOR, FERRITE BEAD
FB111	1-414-598-11	s	INDUCTOR, FERRITE BEAD
FB112	1-414-598-11	s	INDUCTOR, FERRITE BEAD
FB113	1-414-598-11	s	INDUCTOR, FERRITE BEAD
FB114	1-414-598-11	s	INDUCTOR, FERRITE BEAD
FB115	1-414-598-11	s	INDUCTOR, FERRITE BEAD
FB116	1-414-598-11	s	INDUCTOR, FERRITE BEAD
FB117	1-414-598-11	s	INDUCTOR, FERRITE BEAD
FB118	1-414-598-11	s	INDUCTOR, FERRITE BEAD
FL201	1-233-316-21	s	FILTER, CHIP EMI
FL202	1-233-316-21	s	FILTER, CHIP EMI
FL203	1-233-316-21	s	FILTER, CHIP EMI
FL204	1-233-316-21	s	FILTER, CHIP EMI
FL205	1-233-316-21	s	FILTER, CHIP EMI
FL206	1-233-316-21	s	FILTER, CHIP EMI
FL207	1-233-316-21	s	FILTER, CHIP EMI
FL208	1-233-316-21	s	FILTER, CHIP EMI
FL209	1-233-316-21	s	FILTER, CHIP EMI
FL210	1-233-316-21	s	FILTER, CHIP EMI
FL211	1-233-316-21	s	FILTER, CHIP EMI
FL212	1-233-316-21	s	FILTER, CHIP EMI
FL213	1-233-316-21	s	FILTER, CHIP EMI
FL214	1-233-316-21	s	FILTER, CHIP EMI
FL215	1-233-316-21	s	FILTER, CHIP EMI
FL216	1-233-316-21	s	FILTER, CHIP EMI
FL217	1-233-316-21	s	FILTER, CHIP EMI
FL218	1-233-316-21	s	FILTER, CHIP EMI
FL219	1-233-316-21	s	FILTER, CHIP EMI
FL220	1-233-316-21	s	FILTER, CHIP EMI
FL221	1-233-316-21	s	FILTER, CHIP EMI
IC101	8-759-538-91	s	IC HD6413388F10

(SY-270 BOARD)

Ref. No. or Q'ty	Part No.	SP	Description
IC103	8-759-926-11	s	IC SN74HC138ANS
IC104	8-759-926-11	s	IC SN74HC138ANS
IC105	8-759-148-14	s	IC UPD71055GB-3B4
IC106	8-759-148-14	s	IC UPD71055GB-3B4
IC107	8-759-926-49	s	IC SN74HC245ANS
IC108	8-759-926-49	s	IC SN74HC245ANS
IC109	8-759-926-48	s	IC SN74HC244ANS
IC110	8-759-635-27	s	IC M62352GP
IC111	8-759-518-38	s	IC PST572CMT
IC113	8-759-926-66	s	IC SN74HC373NS
IC201	8-759-926-18	s	IC SN74HC157ANS
IC202	8-759-926-18	s	IC SN74HC157ANS
IC203	8-759-342-94	s	IC IDT71256SA20Y
IC204	8-759-494-79	s	IC CXD8736Q
IC205	8-759-541-24	s	IC AM29F040B-SY270PV100
IC206	8-759-327-09	o	IC M27C512-SY12DV1.00
IC207	8-759-926-48	s	IC SN74HC244ANS
IC208	8-759-476-50	s	IC CXD8636Q
IC209	8-759-476-50	s	IC CXD8636Q
IC210	8-759-476-50	s	IC CXD8636Q
IC211	8-759-189-55	s	IC CXD8865R
IC301	8-759-925-74	s	IC SN74HC04ANS
IC302	8-759-925-74	s	IC SN74HC04ANS
IC303	8-759-925-76	s	IC SN74HC08NS
IC304	8-759-925-85	s	IC SN74HC32ANS
IC305	8-759-925-72	s	IC SN74HC02ANS
IC306	8-759-926-05	s	IC SN74HC125ANS
IC307	8-759-925-90	s	IC SN74HC74ANS
IC309	8-759-925-80	s	IC SN74HC14ANS
IC310	8-759-927-46	s	IC SN74HC00ANS
IC311	8-759-927-29	s	IC SN74HCU04ANS
IC312	8-759-925-76	s	IC SN74HC08NS
IC313	8-759-925-72	s	IC SN74HC02ANS
IC314	8-759-925-82	s	IC SN74HC21NS
IC315	8-759-926-98	s	IC SN74HC4040NS
L1	1-424-653-11	s	COIL, CHOKE 10uH
Q101	8-729-027-56	s	TRANSISTOR DTC143TKA
R101	1-216-065-91	s	METAL, CHIP 4.7K 5% 1/10W
R102	1-216-065-91	s	METAL, CHIP 4.7K 5% 1/10W
R103	1-216-065-91	s	METAL, CHIP 4.7K 5% 1/10W
R104	1-216-065-91	s	METAL, CHIP 4.7K 5% 1/10W
R105	1-216-065-91	s	METAL, CHIP 4.7K 5% 1/10W
R106	1-216-065-91	s	METAL, CHIP 4.7K 5% 1/10W
R107	1-216-065-91	s	METAL, CHIP 4.7K 5% 1/10W
R108	1-216-065-91	s	METAL, CHIP 4.7K 5% 1/10W
R109	1-216-065-91	s	METAL, CHIP 4.7K 5% 1/10W
R110	1-216-065-91	s	METAL, CHIP 4.7K 5% 1/10W
R111	1-216-065-91	s	METAL, CHIP 4.7K 5% 1/10W
R112	1-216-065-91	s	METAL, CHIP 4.7K 5% 1/10W
R113	1-216-065-91	s	METAL, CHIP 4.7K 5% 1/10W
R114	1-216-033-00	s	METAL, CHIP 220 5% 1/10W
R115	1-216-073-00	s	METAL, CHIP 10K 5% 1/10W
R116	1-216-065-91	s	METAL, CHIP 4.7K 5% 1/10W
R117	1-216-065-91	s	METAL, CHIP 4.7K 5% 1/10W
R118	1-216-065-91	s	METAL, CHIP 4.7K 5% 1/10W
R120	1-216-065-91	s	METAL, CHIP 4.7K 5% 1/10W
R121	1-216-001-00	s	METAL, CHIP 10 5% 1/10W

(SY-270 BOARD)

Ref. No. or Q'ty	Part No.	SP	Description
R122	1-216-001-00	s	METAL, CHIP 10 5% 1/10W
R123	1-216-001-00	s	METAL, CHIP 10 5% 1/10W
R124	1-216-025-00	s	METAL, CHIP 100 5% 1/10W
R125	1-216-025-00	s	METAL, CHIP 100 5% 1/10W
R126	1-216-025-00	s	METAL, CHIP 100 5% 1/10W
R127	1-216-025-00	s	METAL, CHIP 100 5% 1/10W
R128	1-216-025-00	s	METAL, CHIP 100 5% 1/10W
R129	1-216-025-00	s	METAL, CHIP 100 5% 1/10W
R130	1-216-025-00	s	METAL, CHIP 100 5% 1/10W
R131	1-216-025-00	s	METAL, CHIP 100 5% 1/10W
R132	1-216-025-00	s	METAL, CHIP 100 5% 1/10W
R133	1-216-025-00	s	METAL, CHIP 100 5% 1/10W
R134	1-216-025-00	s	METAL, CHIP 100 5% 1/10W
R135	1-216-025-00	s	METAL, CHIP 100 5% 1/10W
R136	1-216-025-00	s	METAL, CHIP 100 5% 1/10W
R137	1-216-025-00	s	METAL, CHIP 100 5% 1/10W
R138	1-216-025-00	s	METAL, CHIP 100 5% 1/10W
R139	1-216-025-00	s	METAL, CHIP 100 5% 1/10W
R140	1-216-025-00	s	METAL, CHIP 100 5% 1/10W
R141	1-216-025-00	s	METAL, CHIP 100 5% 1/10W
R142	1-216-025-00	s	METAL, CHIP 100 5% 1/10W
R143	1-216-025-00	s	METAL, CHIP 100 5% 1/10W
R144	1-216-025-00	s	METAL, CHIP 100 5% 1/10W
R145	1-216-025-00	s	METAL, CHIP 100 5% 1/10W
R146	1-216-025-00	s	METAL, CHIP 100 5% 1/10W
R147	1-216-025-00	s	METAL, CHIP 100 5% 1/10W
R148	1-216-025-00	s	METAL, CHIP 100 5% 1/10W
R149	1-216-025-00	s	METAL, CHIP 100 5% 1/10W
R150	1-216-025-00	s	METAL, CHIP 100 5% 1/10W
R151	1-216-025-00	s	METAL, CHIP 100 5% 1/10W
R152	1-216-025-00	s	METAL, CHIP 100 5% 1/10W
R153	1-216-025-00	s	METAL, CHIP 100 5% 1/10W
R154	1-216-025-00	s	METAL, CHIP 100 5% 1/10W
R155	1-216-025-00	s	METAL, CHIP 100 5% 1/10W
R156	1-216-025-00	s	METAL, CHIP 100 5% 1/10W
R157	1-216-025-00	s	METAL, CHIP 100 5% 1/10W
R158	1-216-025-00	s	METAL, CHIP 100 5% 1/10W
R159	1-216-025-00	s	METAL, CHIP 100 5% 1/10W
R161	1-216-025-00	s	METAL, CHIP 100 5% 1/10W
R179	1-216-065-91	s	METAL, CHIP 4.7K 5% 1/10W
R201	1-216-121-91	s	METAL, CHIP 1M 5% 1/10W
R202	1-216-121-91	s	METAL, CHIP 1M 5% 1/10W
R206	1-216-025-00	s	METAL, CHIP 100 5% 1/10W
R207	1-216-039-00	s	METAL, CHIP 390 5% 1/10W
R208	1-216-025-00	s	METAL, CHIP 100 5% 1/10W
R209	1-216-097-91	s	METAL, CHIP 100K 5% 1/10W
R210	1-216-009-00	s	METAL, CHIP 22 5% 1/10W
R211	1-216-073-00	s	METAL, CHIP 10K 5% 1/10W
R222	1-216-025-00	s	METAL, CHIP 100 5% 1/10W
R223	1-216-025-00	s	METAL, CHIP 100 5% 1/10W
R224	1-216-025-00	s	METAL, CHIP 100 5% 1/10W
R225	1-216-065-91	s	METAL, CHIP 4.7K 5% 1/10W
R226	1-216-065-91	s	METAL, CHIP 4.7K 5% 1/10W
R227	1-216-025-00	s	METAL, CHIP 100 5% 1/10W
R228	1-216-295-00	s	METAL, CHIP 0 5% 1/10W
R229	1-216-025-00	s	METAL, CHIP 100 5% 1/10W
R230	1-216-025-00	s	METAL, CHIP 100 5% 1/10W
R231	1-216-295-00	s	METAL, CHIP 0 5% 1/10W
R232	1-216-295-00	s	METAL, CHIP 0 5% 1/10W

(SY-270 BOARD)

Ref. No. or Q'ty	Part No.	SP	Description
R233	1-216-295-00	s	METAL, CHIP 0 5% 1/10W
R234	1-216-295-00	s	METAL, CHIP 0 5% 1/10W
R235	1-216-295-00	s	METAL, CHIP 0 5% 1/10W
R236	1-216-295-00	s	METAL, CHIP 0 5% 1/10W
R237	1-216-295-00	s	METAL, CHIP 0 5% 1/10W
R238	1-216-295-00	s	METAL, CHIP 0 5% 1/10W
R239	1-216-295-00	s	METAL, CHIP 0 5% 1/10W
R240	1-216-295-00	s	METAL, CHIP 0 5% 1/10W
R241	1-216-295-00	s	METAL, CHIP 0 5% 1/10W
R242	1-216-295-00	s	METAL, CHIP 0 5% 1/10W
R243	1-216-295-00	s	METAL, CHIP 0 5% 1/10W
R244	1-216-295-00	s	METAL, CHIP 0 5% 1/10W
R245	1-216-295-00	s	METAL, CHIP 0 5% 1/10W
R246	1-216-295-00	s	METAL, CHIP 0 5% 1/10W
R247	1-216-295-00	s	METAL, CHIP 0 5% 1/10W
R248	1-216-295-00	s	METAL, CHIP 0 5% 1/10W
R249	1-216-295-00	s	METAL, CHIP 0 5% 1/10W
R250	1-216-295-00	s	METAL, CHIP 0 5% 1/10W
X101	1-760-150-21	s	RESONATOR, CERAMIC 20MHz
X201	1-579-906-21	s	RESONATOR, CERAMIC 24MHz
X202	1-760-607-11	s	RESONATOR, CERAMIC 14MHz

SWITCHING REGULATOR

Ref. No. or Q'ty	Part No.	SP	Description
1pc	⚠ 1-413-994-14	o	SWITCHING REGULATOR

MISCELLANEOUS
****

Ref. No. or Q'ty	Part No.	SP	Description
CN7	⚠ 9-909-685-01	o	CONNECTOR ASSY 2P
FAN1	9-909-686-01	s	MOTOR,DC FAN
IN1	⚠ 1-580-375-31	s	INLET, 3P
L211	9-909-808-01	s	CORE
SW1	⚠ 9-909-684-01	s	SWITCH

PR-930038 BOARD
****

Ref. No. or Q'ty	Part No.	SP	Description
1pc	⚠ 9-909-749-01	o	PRINTED WIRING BOARD, PR-930038
C27	⚠ 9-909-727-01	s	CERAMIC 1000p 250V
C28	9-909-728-01	s	ELECT 330uF 400V
C29	9-909-730-01	s	CERAMIC 2200p 1KV
C30	9-909-731-01	s	CERAMIC 100p 2KV
C31	9-909-732-01	s	CERAMIC 330p 2KV
C32	1-136-165-00	s	FILM 0.1uF 10% 50V
C47	1-115-827-11	s	ELECT 56uF 20% 50V
C51-1	9-909-738-01	s	CERAMIC 1500p 1KV
C51-2	9-909-738-01	s	CERAMIC 1500p 1KV
C53-1	1-115-820-11	s	ELECT 2700uF 20% 35V
C53-2	1-115-820-11	s	ELECT 2700uF 20% 35V
C54	1-115-820-11	s	ELECT 2700uF 20% 35V
C55	1-136-165-00	s	FILM 0.1uF 10% 50V
C58	1-136-165-00	s	FILM 0.1uF 10% 50V
C65	1-115-756-11	s	ELECT 270uF 20% 16V
C69	1-115-756-11	s	ELECT 270uF 20% 16V
C111	9-909-745-01	s	FILM 0.68uF 630V
C112	⚠ 9-909-746-01	s	FILM 0.22uF 250V
C113	1-128-376-11	s	ELECT 220uF 20% 25V
C114	1-136-165-00	s	FILM 0.1uF 10% 50V
CN3	1-564-035-11	o	PIN CONNECTOR, 10P
CN4	1-564-607-11	o	PIN CONNECTOR, 6P
CN8	⚠ 9-909-687-01	o	CONNECTOR ASSY 2P
CN12	9-909-688-01	o	CONNECTOR 5P
CN14	9-909-689-01	o	CONNECTOR 4P
CN16	9-909-690-01	o	CONNECTOR 2P
CM111	⚠ 9-909-708-01	s	CIRCUIT MODULE
D31	8-719-510-26	s	DIODE D1NL20
D32	9-909-703-01	s	DIODE ERB37-10L
D41	8-719-028-45	s	DIODE D2L20U
D42	8-719-510-46	s	DIODE D1NL20
D51	9-909-704-01	s	DIODE S20LC20U
D111	8-719-510-02	s	DIODE D1NS4
D112	8-719-510-02	s	DIODE D1NS4
D113	9-998-285-01	s	DIODE D1N60
RF21	8-719-510-71	s	DIODE D10XB60
RF111	9-909-699-01	s	DIODE S20L60
TH21	9-909-698-01	s	TRIAC AC12FGM

(SWITCHING REGULATOR)

Ref. No. or Q'ty	Part No.	SP	Description
L51	9-909-691-01	s	COIL, CHOKE
L53	9-909-692-01	s	BEAD, CORE
L54	9-909-693-01	s	BEAD, CORE
L111	⚠ 9-909-695-01	s	COIL, CHOKE
L112	9-909-696-01	s	BEAD, CORE
L113	9-909-696-01	s	BEAD, CORE
Q21	9-909-700-01	s	TRANSISTOR 2SK1796
Q111	9-903-339-01	s	TRANSISTOR 2SK1016
Q112	9-903-339-01	s	TRANSISTOR 2SK1016
R29-1	9-909-709-01	s	METAL 100K 3W
R29-2	9-909-709-01	s	METAL 100K 3W
R30	9-909-711-01	s	METAL 39 2W
R31	9-909-712-01	s	METAL 10 3W
R32	1-249-413-11	s	CARBON 470 5% 1/4W
R33-1	⚠ 9-909-713-01	s	RES, THERMAL CUTOFF 33 130flC
R33-2	⚠ 9-909-713-01	s	RES, THERMAL CUTOFF 33 130flC
R38	9-909-715-01	s	METAL 0.15 5W
R47	9-909-716-01	s	CARBON 15 1/2W
R51	9-909-717-01	s	METAL 22
R94	9-909-718-01	s	CARBON 8.2 1/2W
R111	9-909-719-01	s	METAL 10 1W
R112	9-909-719-01	s	METAL 10 1W
R113	9-909-721-01	s	METAL 0.1 5W
R114	9-909-722-01	s	METAL 0.15 2W
R115	1-249-399-11	s	CARBON 33 5% 1/4W
R116	9-909-723-01	s	CARBON 820K 1/2W
R117	1-249-418-11	s	CARBON 1.2K 5% 1/4W
R118	9-909-724-01	s	CARBON 22K 1/2W
R119	1-249-410-11	s	CARBON 270 5% 1/4W
R120	9-909-725-01	s	CARBON 220K 2W
RV111	9-909-726-01	s	RES, VAR 2K 0.5W
RT71	9-909-706-01	s	THERMISTOR (POSITIVE)
SA111	9-909-707-01	s	VARISTOR
T1	⚠ 9-909-694-01	s	TRANSFORMER

PR-930039 BOARD
****

Ref. No. or Q'ty	Part No.	SP	Description
1pc	⚠ 9-909-752-01	o	PRINTED WIRING BOARD, PR-930039
4pcs	9-995-335-01	o	CLIP, FUSE
C20	⚠ 1-136-193-11	s	FILM 0.47uF 250V
C21	⚠ 1-136-193-11	s	FILM 0.47uF 250V
C22	⚠ 1-136-193-11	s	FILM 0.47uF 250V
C23	⚠ 9-995-329-01	s	CERAMIC 2200p 250V
C24	⚠ 9-995-329-01	s	CERAMIC 2200p 250V
CN1	⚠ 1-564-321-11	o	PIN CONNECTOR, 2P
CN2	⚠ 1-564-321-11	o	PIN CONNECTOR, 2P
F1	⚠ 1-576-233-41	s	FUSE 6.3A 250V
F2	⚠ 1-576-233-41	s	FUSE 6.3A 250V
L21	⚠ 9-909-750-01	s	COIL, CHOKE
L22	⚠ 9-909-750-01	s	COIL, CHOKE
R21	9-994-152-01	s	CARBON 220K

http://getMANUAL.com

PR-930040 BOARD
****

Ref. No. or Q'ty	Part No.	SP	Description
1pc	⚠ 9-909-783-01	o	PRINTED WIRING BOARD, PR-930040
C52-1	9-909-771-01	s	CERAMIC 1000p 1KV
C52-2	9-909-771-01	s	CERAMIC 1000p 1KV
C56	1-115-814-11	s	ELECT 1000uF 20% 35V
C57	1-115-811-11	s	ELECT 560uF 35V
C61	1-115-814-11	s	ELECT 1000uF 20% 35V
C62	1-115-814-11	s	ELECT 1000uF 20% 35V
C63	9-909-774-01	s	CERAMIC 680p 1KV
C64-1	1-115-790-11	s	ELECT 1500uF 20% 25V
C64-2	1-115-790-11	s	ELECT 1500uF 20% 25V
C67	1-115-740-51	s	ELECT 1800uF 10V
C68	9-909-776-01	s	ELECT 1800uF 10V
C70	1-136-161-00	s	FILM 0.047uF 5% 50V
C79	1-115-781-11	s	ELECT 220uF 20% 25V
CN11	9-909-753-01	o	CONNECTOR 5P
CN13	9-909-754-01	o	CONNECTOR 4P
CN15	9-909-755-01	o	CONNECTOR 2P
CN20	9-909-756-01	o	CONNECTOR 2P
D52	8-719-031-79	s	DIODE D5SC4M
D72	8-719-018-83	s	DIODE D2S4M
D73	8-719-912-20	s	DIODE 1SS120
D75	8-719-912-20	s	DIODE 1SS120
D78	8-719-912-20	s	DIODE 1SS120
D79	8-719-912-20	s	DIODE 1SS120
D77	8-719-018-83	s	DIODE D2S4M
D80	8-719-510-02	s	DIODE D1NS4
ZD71	8-719-110-04	s	DIODE RD7.5ESB3
ZD73	8-719-109-85	s	DIODE RD5.1ESB2
ZD74	8-719-110-36	s	DIODE RD13ESB2
TH71	8-719-108-18	s	THYRISTOR 5P6M
L52	9-909-757-01	s	COIL, CHOKE
L61	9-909-758-01	s	COIL, CHOKE
L62	9-909-758-01	s	COIL, CHOKE
L63	9-909-760-01	s	COIL, CHOKE
L64	9-909-761-01	s	COIL, CHOKE
M61	9-909-762-01	s	IC HLD05000M
M62	9-909-764-01	s	IC HLE12003M
M63	9-909-763-01	s	IC HLD00006M
Q72	8-729-265-52	s	TRANSISTOR 2SC2655-Y
R53	9-909-765-01	s	METAL 22 2W
R61	9-909-766-01	s	METAL 150 1W
R62	1-249-398-11	s	CARBON 27 5% 1/4W
R63-1	9-909-767-01	s	METAL 0.15 2W
R63-2	9-909-767-01	s	METAL 0.15 2W
R64-1	9-901-950-01	s	METAL 0.05 2W
R64-2	9-901-950-01	s	METAL 0.05 2W
R65	9-901-949-01	s	METAL 0.22 5W
R66	1-249-395-11	s	CARBON 15 5% 1/4W
R67	1-249-417-11	s	CARBON 1K 5% 1/4W
R68	1-247-827-11	s	CARBON 680 5% 1/4W
R81	9-909-769-01	s	METAL 0.47 5W
R82	1-247-847-11	s	CARBON 4.7K 5% 1/4W
R83	1-249-397-11	s	CARBON 22 5% 1/4W
R84	1-249-404-00	s	CARBON 82 5% 1/4W
R87	9-909-770-01	s	CARBON 47K 5% 1/2W
R88	1-249-401-11	s	CARBON 47 5% 1/4W

PR-930041 BOARD
****

Ref. No. or Q'ty	Part No.	SP	Description
1pc	⚠ 9-909-807-01	o	PRINTED WIRING BOARD, PR-930041
C41	1-126-233-11	s	ELECT 22uF 20% 50V
C42	1-136-165-00	s	FILM 0.1uF 5% 50V
C43	1-126-101-11	s	ELECT 100uF 20% 16V
C44	1-136-161-00	s	FILM 0.047uF 5% 50V
C45	1-136-157-00	s	FILM 0.022uF 5% 50V
C46	1-136-165-00	s	FILM 0.1uF 5% 50V
C48	1-115-827-11	s	ELECT 56uF 20% 50V
C49	1-126-375-11	s	ELECT 100uF 20% 25V
C50	1-104-865-11	s	ELECT 10uF 20% 25V
C71	1-104-899-11	s	ELECT 10uF 20% 50V
C73	1-126-803-11	s	ELECT 47uF 20% 25V
C75	1-136-161-00	s	FILM 0.047uF 5% 50V
C80	1-136-165-00	s	FILM 0.1uF 5% 50V
C90	1-126-801-11	s	ELECT 1uF 20% 50V
C91	1-104-781-51	s	ELECT 22uF 20% 25V
CN17	9-909-784-01	o	CONNECTOR 10P
CN18	9-909-785-01	o	CONNECTOR 12P
CM41	⚠ 9-901-943-01	s	CIRCUIT MODULE
D44	8-719-510-26	s	DIODE D1NL20
D45	8-719-912-20	s	DIODE 1SS120
D71	8-719-912-20	s	DIODE 1SS120
D76	8-719-912-20	s	DIODE 1SS120
ZD41	8-719-902-91	s	DIODE HZ20-1
ZD72	8-719-110-72	s	DIODE RD30ESB2
ZD75	8-719-110-85	s	DIODE RD36ESB4
ZD76	8-719-951-13	s	DIODE HZ5CLL
PC41	⚠ 8-749-923-50	s	PHOTOCOUPLER PC111YS
PC42	⚠ 8-749-923-50	s	PHOTOCOUPLER PC111YS
TH41	8-729-101-31	s	THYRISTOR N13T1
M71	8-759-420-19	s	IC AN1431T
M72	1-807-117-11	s	IC TA75358P
M73	8-759-420-19	s	IC AN1431T
Q22	8-729-194-57	s	TRANSISTOR 2SC945-P
Q41	9-909-786-01	s	TRANSISTOR 2SC3456M
Q42	8-729-194-57	s	TRANSISTOR 2SC945-P
Q43	8-729-194-57	s	TRANSISTOR 2SC945-P
Q71	1-806-310-11	s	TRANSISTOR 2SA673
R41-1	9-909-787-01	s	CARBON 150K
R41-2	9-909-787-01	s	CARBON 150K
R43	1-247-807-11	s	CARBON 100 5% 1/4W
R44	1-249-417-11	s	CARBON 1K 5% 1/4W
R45	1-247-855-11	s	CARBON 10K 5% 1/4W
R46	1-249-417-11	s	CARBON 1K 5% 1/4W
R48-1	9-909-789-01	s	CARBON 100K
R48-2	9-909-789-01	s	CARBON 100K
R49-1	9-909-790-01	s	METAL 4.7K
R49-2	9-909-791-01	s	RES, FUSIBLE 2K 1/2W
R50	1-249-427-11	s	CARBON 6.8K 5% 1/4W
R69	1-247-871-11	s	CARBON 47K 5% 1/4W

(SWITCHING REGULATOR)

Ref. No. or Q'ty	Part No.	SP	Description
R70	1-249-417-11	s	CARBON 1K 5% 1/4W
R71	9-909-792-01	s	CARBON 820 1/2W
R72	1-249-423-11	s	CARBON 3.3K 5% 1/4W
R74	1-249-412-11	s	CARBON 390 5% 1/4W
R75	1-247-825-11	s	CARBON 560 5% 1/4W
R76	1-247-855-11	s	CARBON 10K 5% 1/4W
R77	1-249-418-11	s	CARBON 1.2K 5% 1/4W
R78	1-247-855-11	s	CARBON 10K 5% 1/4W
R79	1-247-855-11	s	CARBON 10K 5% 1/4W
R80	1-249-407-11	s	CARBON 150 5% 1/4W
R85	1-249-407-11	s	CARBON 150 5% 1/4W
R86	1-249-418-11	s	CARBON 1.2K 5% 1/4W
R90	1-249-409-11	s	CARBON 220 5% 1/4W
R91	1-247-871-11	s	CARBON 47K 5% 1/4W
R92	1-247-855-11	s	CARBON 10K 5% 1/4W
R93	1-249-433-11	s	CARBON 22K 5% 1/4W
R95	9-909-793-01	s	CARBON 220K
RV41	9-909-794-01	s	RES, VAR 5K
RV71	9-909-795-01	s	RES, VAR 200
RV72	9-909-796-01	s	RES, VAR 2K

FRAME

Ref. No. or Q'ty	Part No.	SP	Description
1pc	⚠ 1-413-994-14	o	SWITCHING REGULATOR
1pc	1-467-987-31	s	PANEL UNIT, LIQUID CRYSTAL IND
1pc	1-541-697-21	s	MOTOR, DC
1pc	1-541-965-11	s	MOTOR, STEPPING
1pc	1-698-549-11	s	FAN, DC
1pc	1-769-389-12	s	WIRE, (FLAT TYPE)(32-CORE)
2pcs	1-769-534-11	s	WIRE, (FLAT TYPE)(24-CORE)
1pc	1-769-535-11	s	WIRE, (FLAT TYPE)(15-CORE)
1pc	1-954-208-11	o	HARNESS, SUB (HDRBN)
1pc	1-954-210-11	o	HARNESS, SUB (HD)
1pc	1-954-211-11	o	HARNESS, SUB (SY)

SUPPLIED ACCESSORIES

Ref. No. or Q'ty	Part No.	SP	Description
1pc	*1 A-8278-095-H	s	TRAY(L) ASSEMBLY, SUPPLY[for UC]
1pc	*1 A-8278-094-G	s	TRAY(A) ASSEMBLY, SUPPLY [for J,CE]
	*1 These parts includes the tray cover.		
1pc	3-683-324-02	s	COVER, TRAY
1pc	A-8279-010-A	s	RIBBON HOLDER ASSEMBLY
1pc	X-3604-917-1	s	NET ASSEMBLY[for fan]
1pc	X-3604-918-1	s	COVER ASSEMBLY[for fan]
1pc	⚠ 1-534-827-14	s	CORD, POWER[for UC]
1pc	⚠ 1-575-181-11	s	CORD, POWER[for J]
1pc	⚠ 1-782-929-11	s	CORD, POWER[for CE]
1pc	⚠ 1-750-686-11	s	CONNECTOR, CONVERTER(2P-3P) [for J]
1pc	3-614-334-01	o	COVER, BOTTOM
1pc	3-683-192-01	s	TRAY, PARER EJECT
1pc	3-704-355-01	o	SHEET (STADARD), PROTECTION
1pc	3-864-122-01	s	MANUAL, INSTRUCTION[for J]
1pc	3-864-122-11	s	MANUAL, INSTRUCTION[for UC]
1pc	3-864-122-21	s	MANUAL, INSTRUCTION[for CE]

SECTION 9
SPARE PARTS

9-1. NOTES ON SPARE PARTS

(1) Safety Related Components Warning
Components marked ⚠ are critical to safe operation. Therefore, specified parts should be used in the case of replacement.

(2) Standardization of Parts
Spare parts supplied from Sony Parts Center may not be always identical with the parts which actually in use due to “accommodating the improved parts and/or engineering changes” or “standardization of genuine parts”.
This manual's exploded views and electrical spare parts list are indicating the part numbers of “the standardized genuine parts at present” .

(3) Stock of Parts
Parts marked with “o” SP (Supply Code) column of the spare parts list are not normally required for routine service work. Orders for parts marked with “o” will be processed, but allow for additional delivery time.

(4) Units for Capacitors, Inductors and Resistors
The following units are assumed in schematic diagrams, electrical parts list and exploded views unless otherwise specified.

Capacitors : μF
Inductors : μH
Resistors : Ω

9-1. 補修部品注意事項

1. 安全重要部品
⚠印のついた部品は安全性を維持するために重要な部品です。したがって，交換する時は必ず指定の部品を使ってください。

2. 部品の共通化
ソニーから供給する補修用部品は，セットに使われているものと異なることがあります。
これは部品の共通化，改良等によるものです。
部品表には現時点での共通化された補修用部品が記載されています。

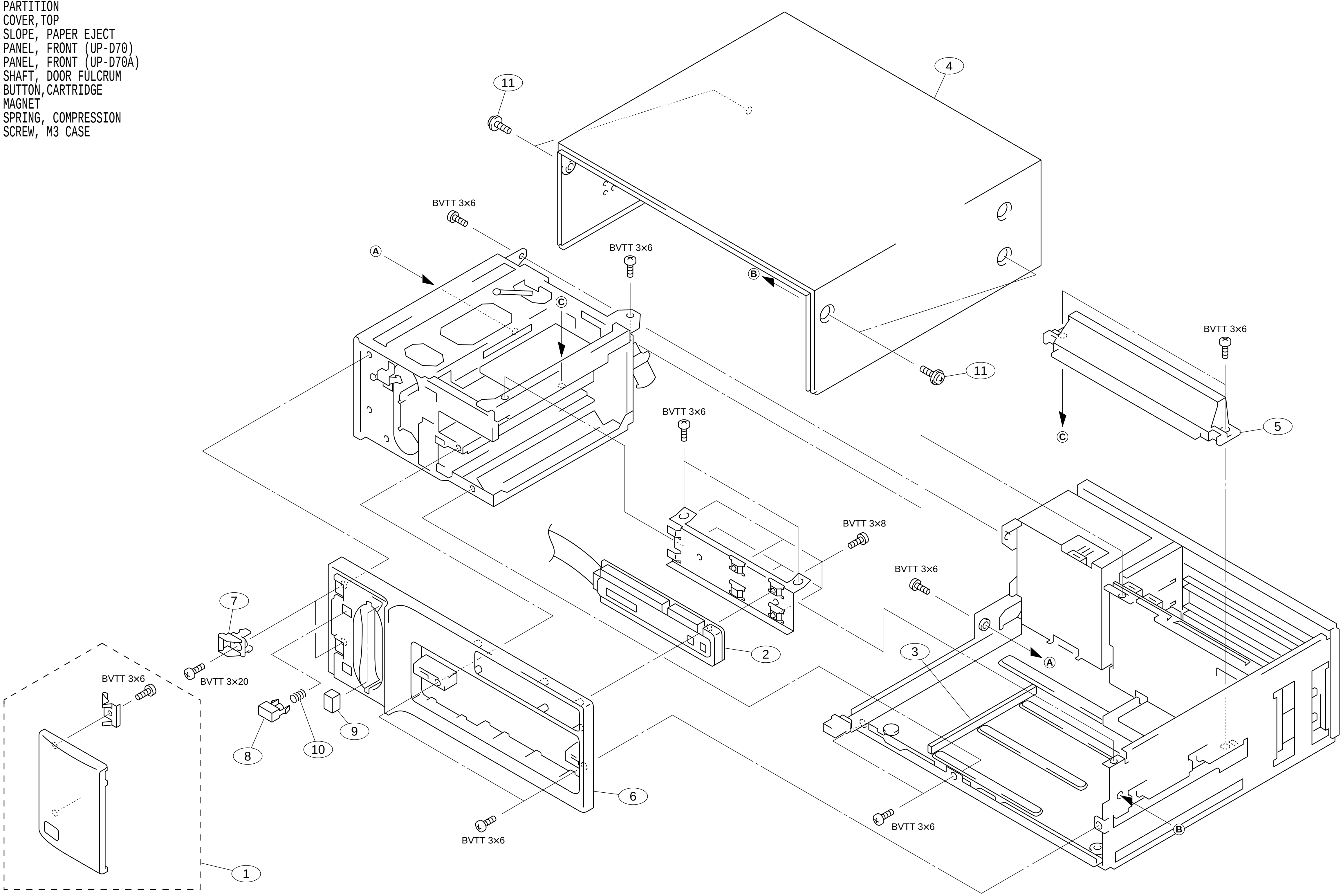
3. 部品の在庫
部品表のSP (Supply code) 欄に “o” で示される部品は在庫していないことがあり，納期が長くなることがあります。

4. 単位の表記
下記の単位については，表記を変更または省略しています。

単位		表記
静電容量	μF	uF
インダクタンス	μH	uH
抵抗値	Ω	省略
温度	℃	×××-DEG-C

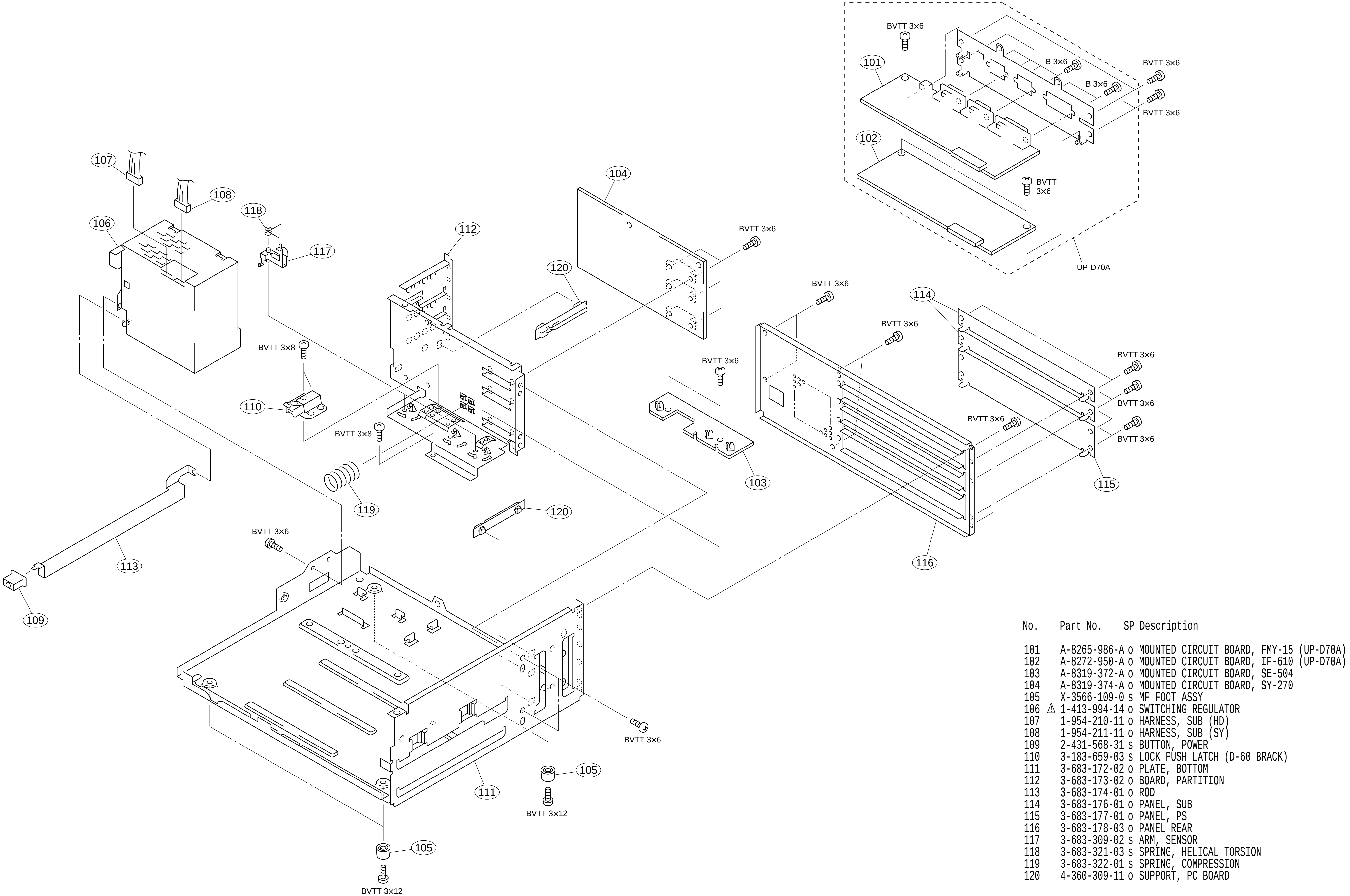
9-2. EXPLODED VIEWS

No.	Part No.	SP	Description
1	A-8278-100-E	s	RIBBON DOOR ASSY
2	1-467-987-31	s	LIQUID CRYSTAL IND PANEL UNIT
3	3-614-345-01	o	PARTITION
4	3-683-175-11	o	COVER,TOP
5	3-683-194-01	s	SLOPE, PAPER EJECT
6	3-683-328-21	s	PANEL, FRONT (UP-D70)
6	3-683-328-31	s	PANEL, FRONT (UP-D70A)
7	3-725-630-02	s	SHAFT, DOOR FULCRUM
8	3-725-631-01	s	BUTTON,CARTRIDGE
9	3-736-779-01	s	MAGNET
10	4-864-519-02	s	SPRING, COMPRESSION
11	4-886-821-11	s	SCREW, M3 CASE


4
11
BVTT 3×6
Ⓐ
BVTT 3×6
Ⓑ
Ⓒ
BVTT 3×6
11
Ⓒ
5
BVTT 3×6
BVTT 3×8
BVTT 3×6
7
2
3
Ⓐ
BVTT 3×6
BVTT 3×20
9
8
10
6
BVTT 3×6
BVTT 3×6
Ⓑ
1

REAR PANEL, CHASSIS BLOCK

REAR PANEL, CHASSIS BLOCK

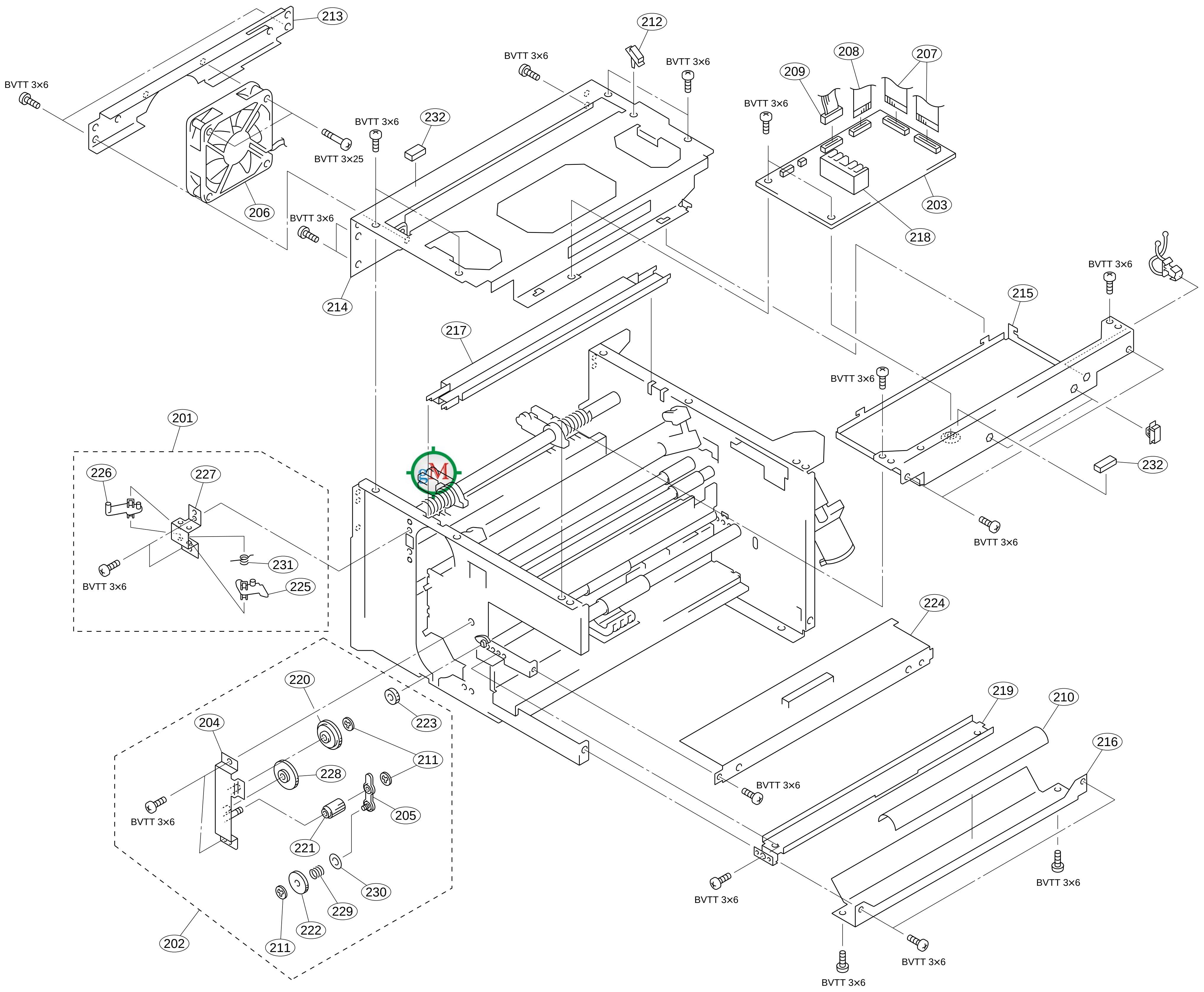

BVTT 3×6
101
B 3×6
BVTT 3×6
B 3×6
BVTT 3×6
102
BVTT 3×6
UP-D70A
107
108
104
106
118
117
112
BVTT 3×6
120
BVTT 3×6
114
BVTT 3×6
BVTT 3×8
BVTT 3×6
BVTT 3×6
110
BVTT 3×6
BVTT 3×8
BVTT 3×6
103
115
119
120
BVTT 3×6
113
116
109
BVTT 3×6
105
111
BVTT 3×12
105
BVTT 3×12

No.	Part No.	SP	Description
101	A-8265-986-A	o	MOUNTED CIRCUIT BOARD, FMY-15 (UP-D70A)
102	A-8272-950-A	o	MOUNTED CIRCUIT BOARD, IF-610 (UP-D70A)
103	A-8319-372-A	o	MOUNTED CIRCUIT BOARD, SE-504
104	A-8319-374-A	o	MOUNTED CIRCUIT BOARD, SY-270
105	X-3566-109-0	s	MF FOOT ASSY
106 ⚠	1-413-994-14	o	SWITCHING REGULATOR
107	1-954-210-11	o	HARNESS, SUB (HD)
108	1-954-211-11	o	HARNESS, SUB (SY)
109	2-431-568-31	s	BUTTON, POWER
110	3-183-659-03	s	LOCK PUSH LATCH (D-60 BRACK)
111	3-683-172-02	o	PLATE, BOTTOM
112	3-683-173-02	o	BOARD, PARTITION
113	3-683-174-01	o	ROD
114	3-683-176-01	o	PANEL, SUB
115	3-683-177-01	o	PANEL, PS
116	3-683-178-03	o	PANEL REAR
117	3-683-309-02	s	ARM, SENSOR
118	3-683-321-03	s	SPRING, HELICAL TORSION
119	3-683-322-01	s	SPRING, COMPRESSION
120	4-360-309-11	o	SUPPORT, PC BOARD

MECHANISM BLOCK (1)

MECHANISM BLOCK (1)

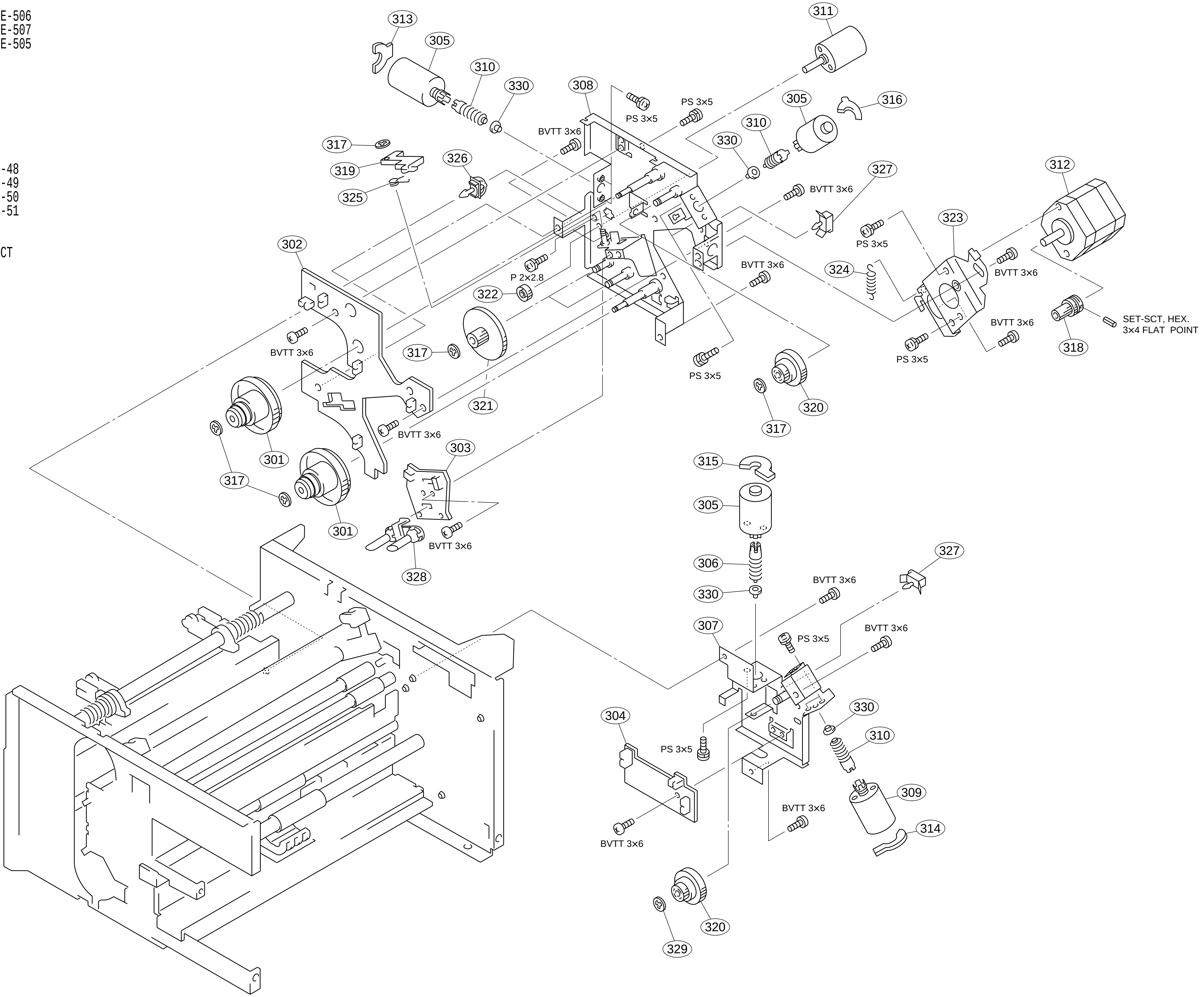
No.	Part No.	SP	Description
201	A-8278-096-A	s	ASSY, EJECT LOCK
202	A-8278-097-C	s	ASSY, CODE DRIVING
203	A-8319-347-A	o	MOUNTED CIRCUIT BOARD, MEC-11
204	X-3678-214-1	o	CODE GEAR BRACKET ASSY
205	X-3678-215-1	s	CODE ARM ASSY
206	1-698-549-11	s	FAN, DC
207	1-769-534-12	s	WIRE, (FLAT TYPE) (24 CORE)
208	1-769-535-12	s	WIRE, (FLAT TYPE) (15 CORE)
209	1-954-208-11	o	HARNESS, SUB (HDR BN)
211	3-669-596-01	s	WASHER(2.3), STOPPER
212	3-683-073-01	o	CLAMP, HARNESS
213	3-683-104-03	o	BRACKET, FAN
214	3-683-105-02	o	PLATE, TOP
215	3-683-106-02	o	CONER(T)
216	3-683-107-04	o	CONER(B)
217	3-683-110-01	o	GUIDE, RIBBON CASSETTE
218	3-683-146-01	o	HEAT SINK (IC)
219	3-683-163-04	o	SUPPORT, SUPPLY
220	3-683-183-01	s	GEAR(L), CODE IDLER
221	3-683-184-01	s	GEAR(S), CODE IDLER
222	3-683-185-01	s	GEAR(M), CODE IDLER
223	3-683-186-01	s	GEAR, CODE DRIVE
224	3-683-193-02	o	GUIDE, PAPER EJECT TRAY
225	3-683-306-01	s	ARM, EJECT LOCK
226	3-683-307-01	s	ARM, EJECT
227	3-683-308-01	o	PLATE, EJECT
228	3-683-318-01	s	GEAR, CODE ACCELERATION
229	3-683-320-01	s	SPRING, COMPRESSION
230	3-701-443-01	s	WASHER, 5
231	3-725-732-01	s	SPRING, TORSION
232	4-911-041-01	o	CUSHION, RUBBER


213
212
BVTT 3×6
BVTT 3×6
208
207
209
BVTT 3×6
BVTT 3×6
BVTT 3×6
232
BVTT 3×25
206
BVTT 3×6
203
218
214
BVTT 3×6
215
217
BVTT 3×6
232
201
226
227
BVTT 3×6
231
225
BVTT 3×6
224
220
204
223
219
210
211
228
216
205
BVTT 3×6
BVTT 3×6
221
230
229
BVTT 3×6
BVTT 3×6
222
202
211
BVTT 3×6
BVTT 3×6

MECHANISM BLOCK (2)

MECHANISM BLOCK (2)

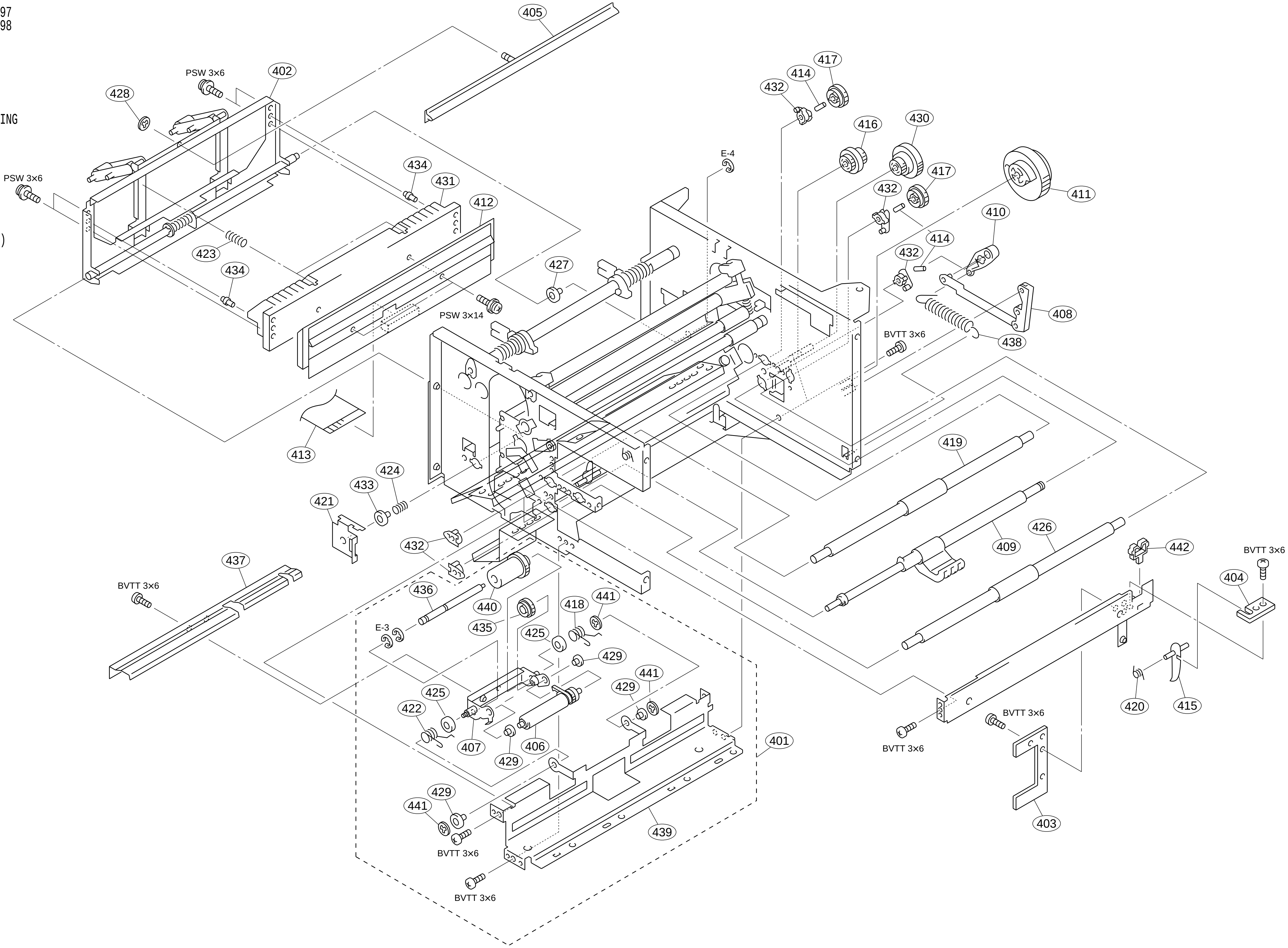
No.	Part No.	SP	Description
301	A-8278-083-A	s	SPROCKET ASSY
302	A-8319-350-A	o	MOUNTED CIRCUIT BOARD, SE-506
303	A-8319-352-A	o	MOUNTED CIRCUIT BOARD, SE-507
304	A-8319-359-A	o	MOUNTED CIRCUIT BOARD, SE-505
305	X-3604-911-1	s	DC MOTOR(RK) ASSY
306	X-3604-912-1	s	WORM(L) ASSY
307	X-3604-914-1	o	MOTOR BRACKET(K) ASSY
308	X-3678-202-7	o	MOTOR BRACKET(T) ASSY
309	X-3678-206-1	s	DC MOTOR(MB) ASSY
310	X-3737-811-2	s	WORM BLOCK ASSY
311	1-541-697-21	s	MOTER, DC
312	1-541-965-11	s	MOTOR, STEPPING
313	1-670-414-11	o	PRINTED WIRING BOARD, SU-48
314	1-670-415-11	o	PRINTED WIRING BOARD, SU-49
315	1-670-416-11	o	PRINTED WIRING BOARD, SU-50
316	1-670-417-11	o	PRINTED WIRING BOARD, SU-51
317	3-669-596-00	s	WASHER(2.3), STOPPER
318	3-683-040-01	s	PULLEY, PULSE MOTOR
319	3-683-045-02	s	ARM, RIBBON CASSETTE EJECT
320	3-683-046-01	s	WHEEL, WORM
321	3-683-060-01	s	GEAR, RIBBON IDLER
322	3-683-061-01	s	GEAR, SUPPLY MOTOR
323	3-683-109-02	o	BRACKET, MOTOR(P)
324	3-683-125-01	s	SPRING, EXTENSION
325	3-683-128-01	s	SPRING, HELICAL TORSION
326	3-683-144-01	o	PC SUPPORT
327	3-686-073-01	o	CLAMP, HARNESS
328	3-695-898-01	s	GUIDE, LIGHT
329	3-696-510-01	s	WASHER(3), STOPPER
330	3-737-880-01	s	CAP, WORM SHAFT


313
305
310
330
308
311
PS 3×5
PS 3×5
305
316
BVTT 3×6
310
330
317
319
326
325
BVTT 3×6
327
312
323
302
PS 3×5
BVTT 3×6
P 2×2.8
BVTT 3×6
324
322
BVTT 3×6
SET-SCT, HEX.
3×4 FLAT POINT
BVTT 3×6
318
PS 3×5
317
PS 3×5
321
320
317
BVTT 3×6
303
301
317
301
BVTT 3×6
328
315
305
306
327
BVTT 3×6
330
307
PS 3×5
BVTT 3×6
330
304
310
PS 3×5
309
BVTT 3×6
BVTT 3×6
314
320
329

MECHANISM BLOCK (3)

MECHANISM BLOCK (3)

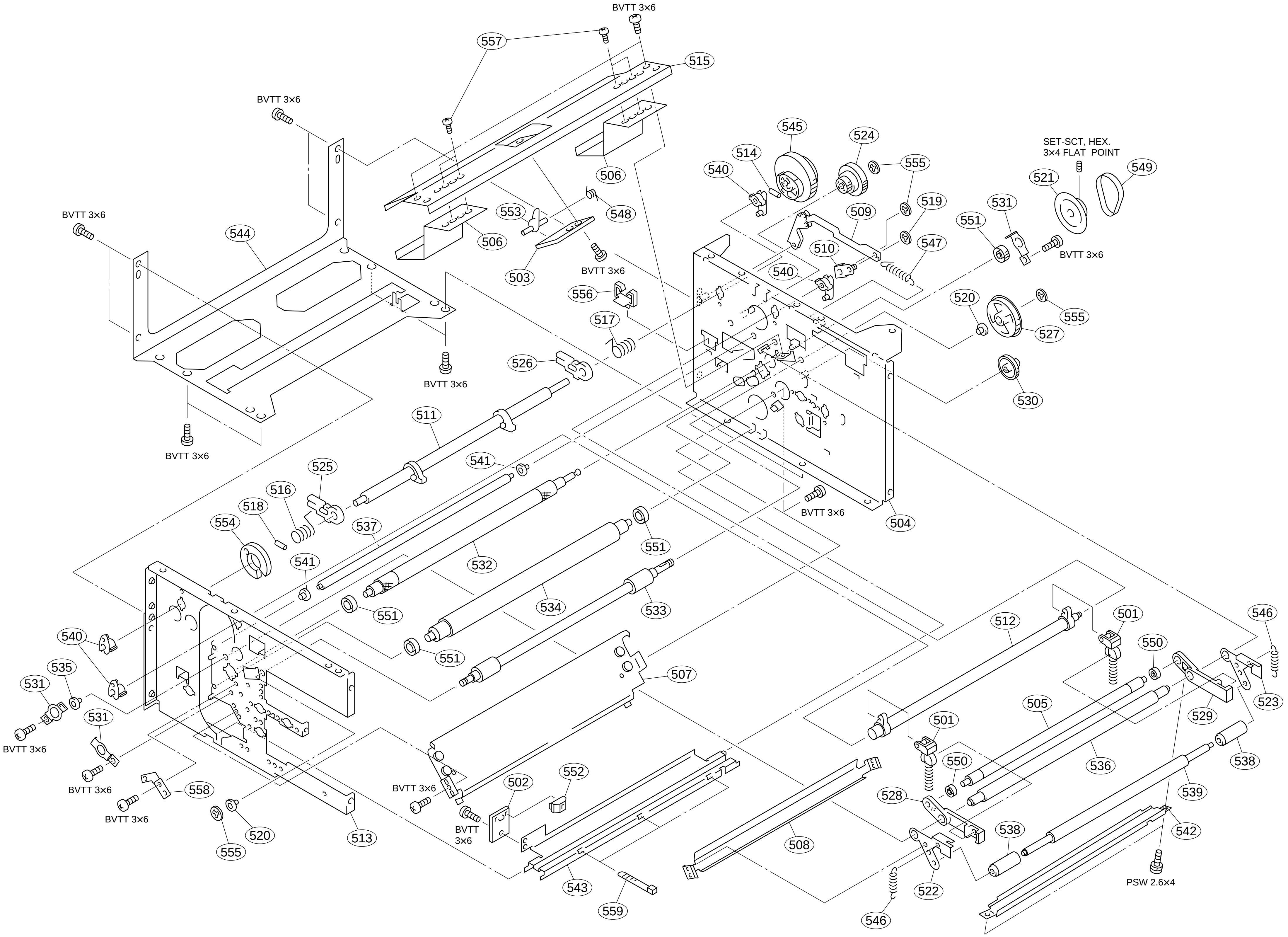
No.	Part No.	SP	Description
401	A-8278-093-G	s	ASSY, REVERSE, ROLLER
402	A-8279-008-A	o	HEAD GUIDE ASSY
403	A-8319-364-A	o	MOUNTED CIRCUIT BOARD, SE-497
404	A-8319-366-A	o	MOUNTED CIRCUIT BOARD, SE-498
405	X-3604-915-1	o	RIBBON SUPPORT ASSY
406	X-3604-919-1	s	SEPARATION ROLLER ASSY
407	X-3678-207-3	o	REVERSE ROLLER GUIDE ASSY
408	X-3678-208-1	o	LINK ARM ASSY
409	X-3678-211-4	o	SUPPLY LEVER ASSY
410	X-3678-213-2	s	SUPPLY DRIVE ARM ASSY
411	X-3678-986-2	s	ASSY CAM, SUPPLY LEVER DRIVING
412	1-500-174-21	s	HEAD, THERMAL
413	1-769-389-12	s	WIRE, (FLAT TYPE)(32 CORE)
414	2-249-361-00	s	PIN, PARALLEL
415	3-614-326-01	s	PLATE, SUPPLY SENSOR
416	3-614-327-01	s	GEAR, SUPPLY ROLLER IDLER
417	3-614-328-01	s	GEAR, SUPPLY ROLLER DRIVING
418	3-614-330-01	s	SPRING, TORSION(6)L
419	3-614-331-01	s	ROLLER, SUPPLY
420	3-614-332-01	s	SPRING, HELICAL TORSION (PO)
421	3-614-343-01	o	RETAINER, BEARING(H)
422	3-614-356-01	s	SPRING, TORSION(6)
423	3-614-359-01	s	SPRING, COMPRESSION
424	3-614-360-01	s	SPRING, COMPRESSION
425	3-614-361-01	o	STOPPER,SPRING
426	3-614-362-01	s	ROLLER, PICK UP
427	3-614-363-01	o	BUSH, HEAD GUIDE
428	3-669-596-01	s	WASHER (2.3), STOPPER
429	3-683-036-01	s	BEARING(M)
430	3-683-046-01	s	WHEEL, WORM
431	3-683-047-02	o	HEAT SINK
432	3-683-088-01	s	BEARING(L)
433	3-683-074-01	s	BEARING, CAPSTAN ARM
434	3-683-091-02	o	PIN, HEAD POSITIONING
435	3-683-158-01	s	GEAR, REVERSE IDLER
436	3-683-160-01	o	SHAFT, LIMITER
437	3-683-168-04	s	GUIDE, PAPER SEPARATION
438	3-683-302-01	s	SPRING, TENSION
439	3-683-311-02	o	GUIDE, TRAY
440	3-683-317-01	s	LIMITER
441	3-696-510-01	s	WASHER(3), STOPPER
442	4-310-385-00	o	HOLDER, WIRE


405
417
414
432
428
PSW 3×6
402
416
430
E-4
434
431
PSW 3×6
412
417
432
411
410
414
423
434
427
432
PSW 3×14
408
BVTT 3×6
438
413
419
424
433
421
432
437
BVTT 3×6
409
426
442
BVTT 3×6
404
436
440
418
441
E-3
435
425
429
441
429
425
422
407
429
406
401
420
415
BVTT 3×6
BVTT 3×6
403
429
441
439
BVTT 3×6
BVTT 3×6

MECHANISM BLOCK (4)

MECHANISM BLOCK (4)

No.	Part No.	SP	Description
501	A-8278-086-B	s	CAPSTAN SPRING ASSY
502	A-8319-361-A	o	MOUNTED CIRCUIT BOARD, SE-502
503	A-8319-368-A	o	MOUNTED CIRCUIT BOARD, SE-503
504	X-3604-913-1	o	SIDE PLATE(R) ASSY
505	X-3604-916-1	o	PINCH ROLLER ASSY
506	X-3604-920-1	s	ASSY, RETAINER, BRUSH
507	X-3604-926-1	o	SUPPLY GUIDE ASSY
508	X-3678-192-5	s	EJECT GUIDE ASSY
509	X-3678-195-2	o	CAPSTAN DRIVING CAM ARM ASSY
510	X-3678-196-1	o	CAPSTAN DRIVING SHAFT ARM ASSY
511	X-3678-198-3	s	HEAD DRIVING SHAFT ASSY
512	X-3678-199-2	s	CAPSTAN DRIVING SHAFT ASSY
513	X-3678-200-3	o	SIDE PLATE(F) ASSY
514	2-249-361-00	s	PIN, PARALLEL
515	3-614-333-01	o	GUIDE, EJECT(B)
516	3-614-430-01	s	SPRING, HELICAL TORSION
517	3-614-431-01	s	SPRING, HELICAL TORSION
518	3-661-278-01	s	PIN, PARALLEL
519	3-669-596-00	s	WASHER(2.3), STOPPER
520	3-683-036-01	s	BEARING(M)
521	3-683-039-01	s	PULLEY, CAPSTAN
522	3-683-042-01	o	ARM, EJECT ROLLER(F)
523	3-683-043-01	o	ARM, EJECT ROLLER(R)
524	3-683-046-01	s	WHEEL, WORM
525	3-683-050-02	s	ARM, HEAD DRIVING(F)
526	3-683-051-02	s	ARM, HEAD DRIVING(R)
527	3-683-054-01	s	GEAR, EJECT ROLLER
528	3-683-057-02	o	ARM, CAPSTAN(F)
529	3-683-058-02	o	ARM, CAPSTAN(R)
530	3-683-059-01	s	GEAR, EJECT IDLER
531	3-683-066-01	o	RETAINER, BEARING
532	3-683-070-06	s	CAPSTAN
533	3-683-071-01	s	ROLLER, EJECT
534	3-683-073-02	s	PLATEN
535	3-683-074-01	s	BEARING, CAPSTAN ARM
536	3-683-084-02	o	SHAFT, CAPSTAN ARM
537	3-683-085-01	s	ROLLER, RIBBON GUIDE
538	3-683-086-01	s	PINCH ROLLER, EJECT
539	3-683-087-01	o	SHAFT, EJECT PINCH ROLLER
540	3-683-088-01	s	BEARING(L)
541	3-683-089-01	s	BEARING(S)
542	3-683-101-06	o	GUIDE, EJECT(M)
543	3-683-110-01	o	GUIDE, RIBBON CASSETTE
544	3-683-112-01	o	PLATE, BASE
545	3-683-113-03	s	CAM, CAPSTAN DRIVING
546	3-683-119-01	s	SPRING, TENSION
547	3-683-122-01	s	SPRING, TENSION
548	3-683-129-02	s	SPRING, HELICAL TORSION
549	3-683-138-01	s	TIMING BELT
550	3-683-139-01	o	FLANGELESS BALL BEARING
551	3-683-140-01	o	FLANGELESS BALL BEARING
552	3-683-142-01	s	COVER, SENSOR
553	3-683-049-02	s	PLATE, EDGE SENSOR
554	3-683-305-01	s	STOPPER, EJECT
555	3-696-510-01	s	WASHER(3), STOPPER
556	3-698-787-01	s	HOLDER, WIRE
557	3-733-912-11	s	SCREW (M2X4.5), SPECIAL HEAD
558	3-737-810-01	o	SPRING
559	3-847-356-02	o	CLAMP

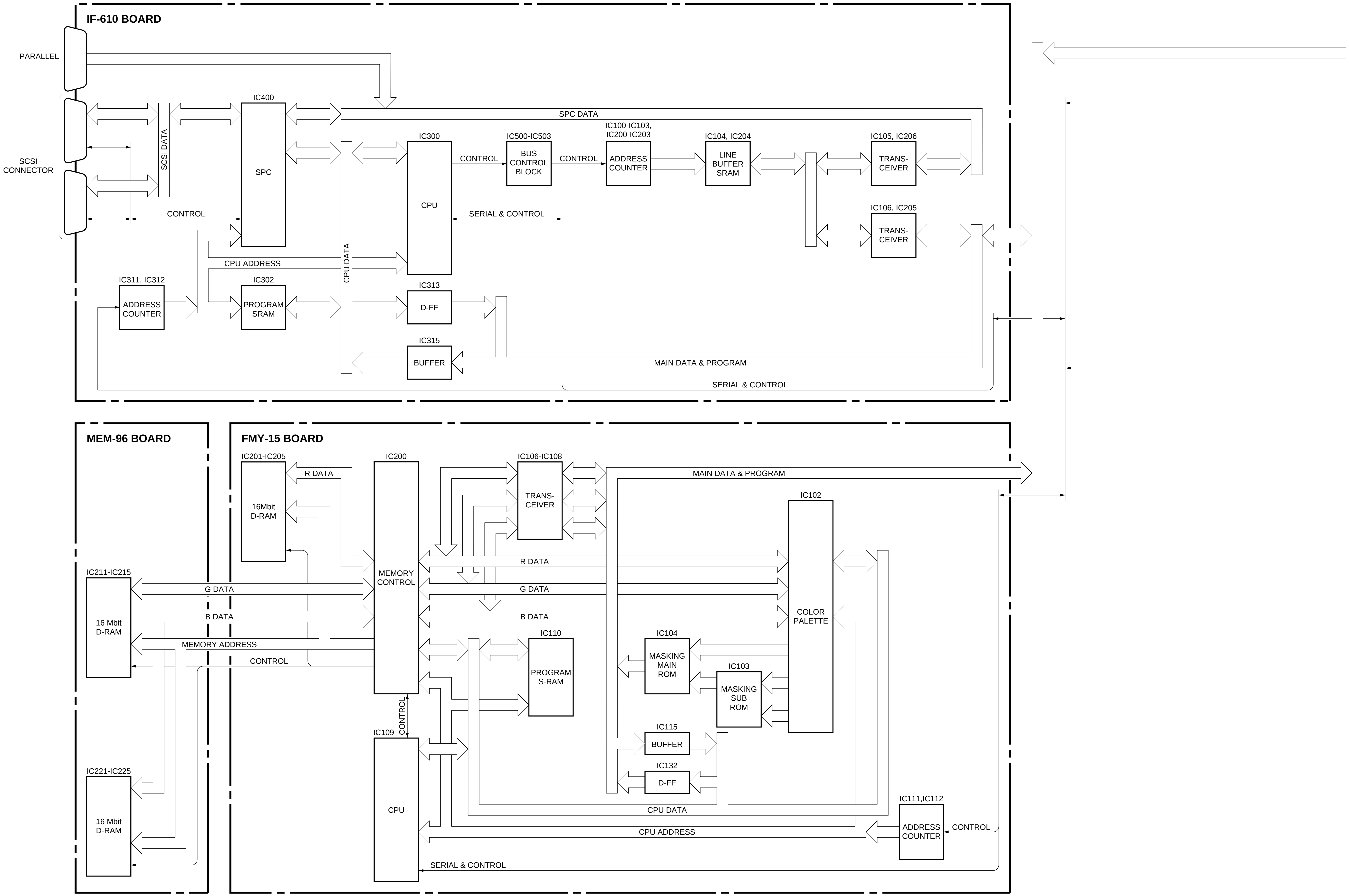

BVTT 3×6
557
515
BVTT 3×6
506
545
524
555
514
540
SET-SCT, HEX.
3×4 FLAT POINT
549
521
553
548
519
509
531
551
BVTT 3×6
544
506
503
BVTT 3×6
510
547
540
556
520
555
517
527
526
BVTT 3×6
530
511
BVTT 3×6
541
525
516
518
537
BVTT 3×6
504
554
551
541
532
551
534
533
546
512
501
550
540
535
507
551
523
531
505
529
531
501
BVTT 3×6
550
536
538
552
BVTT 3×6
502
539
BVTT 3×6
558
528
BVTT 3×6
BVTT
3×6
538
542
520
513
508
555
PSW 2.6×4
543
522
559
546

9-7

http://getMANUAL.com

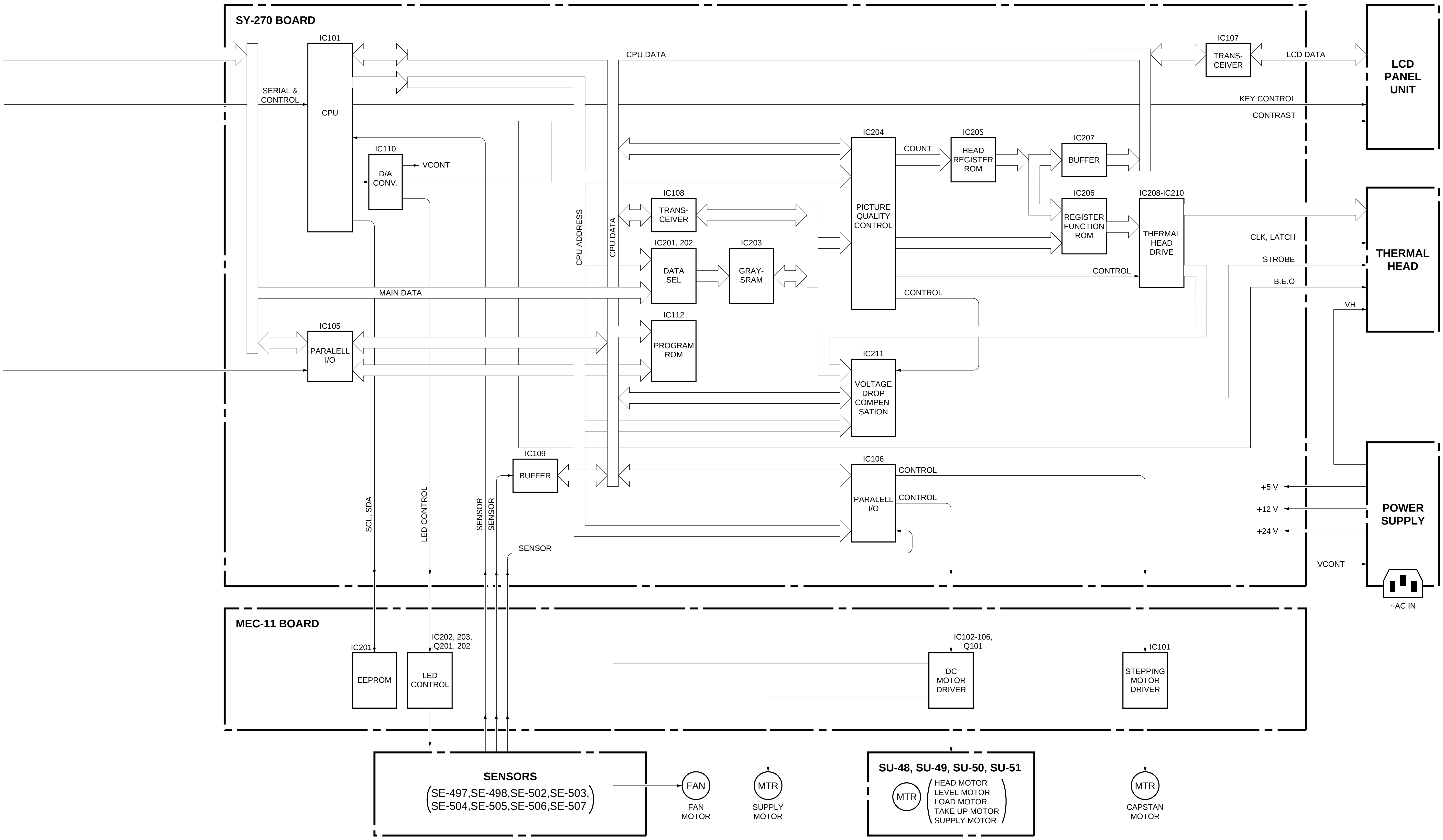
SECTION 10
BLOCK DIAGRAMS

OVERALL


IF-610 BOARD
PARALLEL
SCSI CONNECTOR
SCSI DATA
IC400
SPC
SPC DATA
CONTROL
IC300
CPU
CONTROL
IC500-IC503
BUS CONTROL BLOCK
CONTROL
IC100-IC103, IC200-IC203
ADDRESS COUNTER
IC104, IC204
LINE BUFFER SRAM
IC105, IC206
TRANS-CEIVER
IC106, IC205
TRANS-CEIVER
SERIAL & CONTROL
CPU ADDRESS
CPU DATA
IC311, IC312
ADDRESS COUNTER
IC302
PROGRAM SRAM
IC313
D-FF
IC315
BUFFER
MAIN DATA & PROGRAM
SERIAL & CONTROL
MEM-96 BOARD
IC211-IC215
16 Mbit D-RAM
IC221-IC225
16 Mbit D-RAM
FMY-15 BOARD
IC201-IC205
16Mbit D-RAM
R DATA
IC200
MEMORY CONTROL
IC106-IC108
TRANS-CEIVER
MAIN DATA & PROGRAM
IC102
COLOR PALETTE
R DATA
G DATA
G DATA
B DATA
B DATA
MEMORY ADDRESS
CONTROL
IC110
PROGRAM S-RAM
IC104
MASKING MAIN ROM
IC103
MASKING SUB ROM
CONTROL
IC109
CPU
IC115
BUFFER
IC132
D-FF
CPU DATA
IC111,IC112
ADDRESS COUNTER
CONTROL
CPU ADDRESS
SERIAL & CONTROL

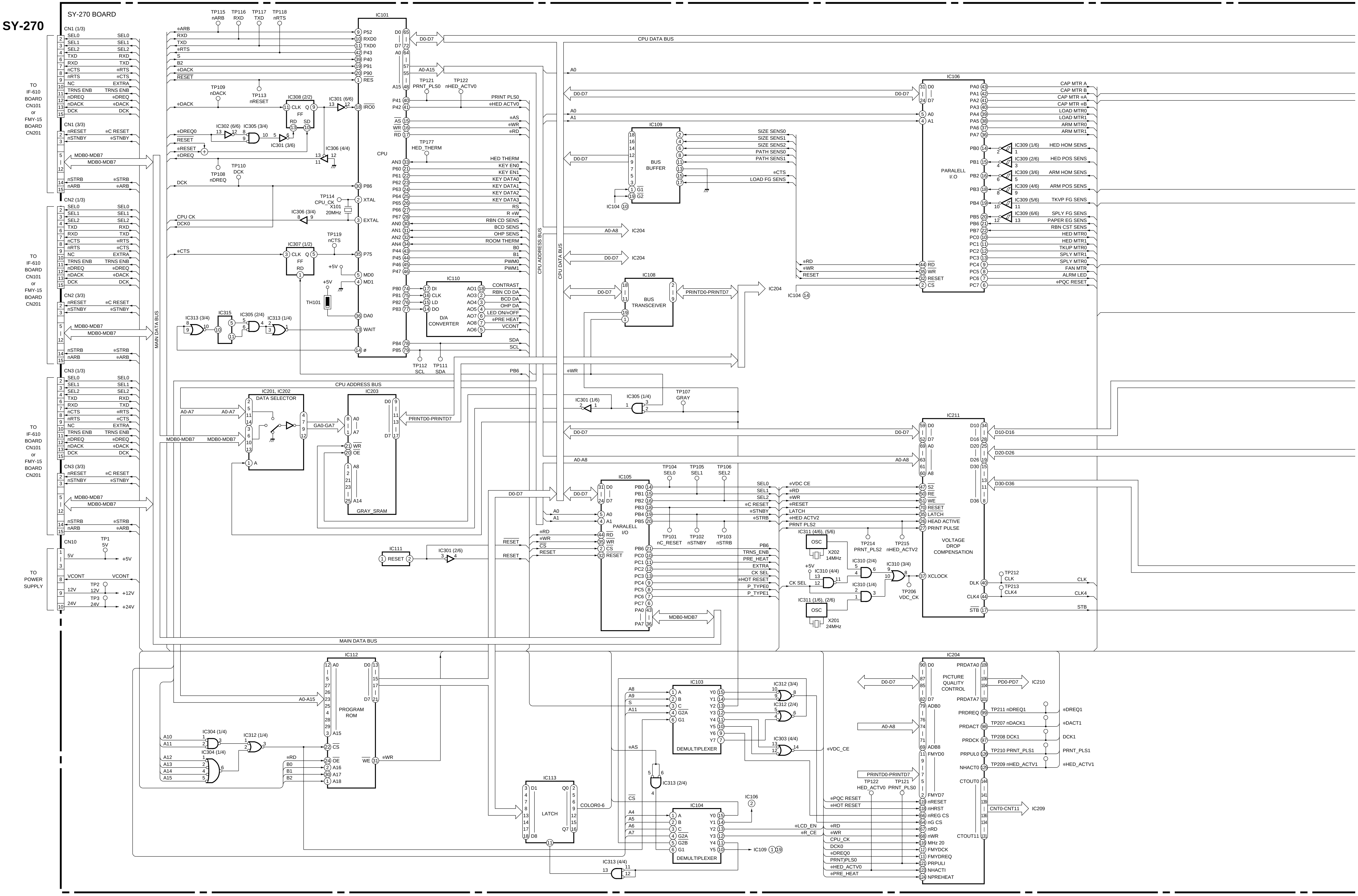
OVERALL

OVERALL

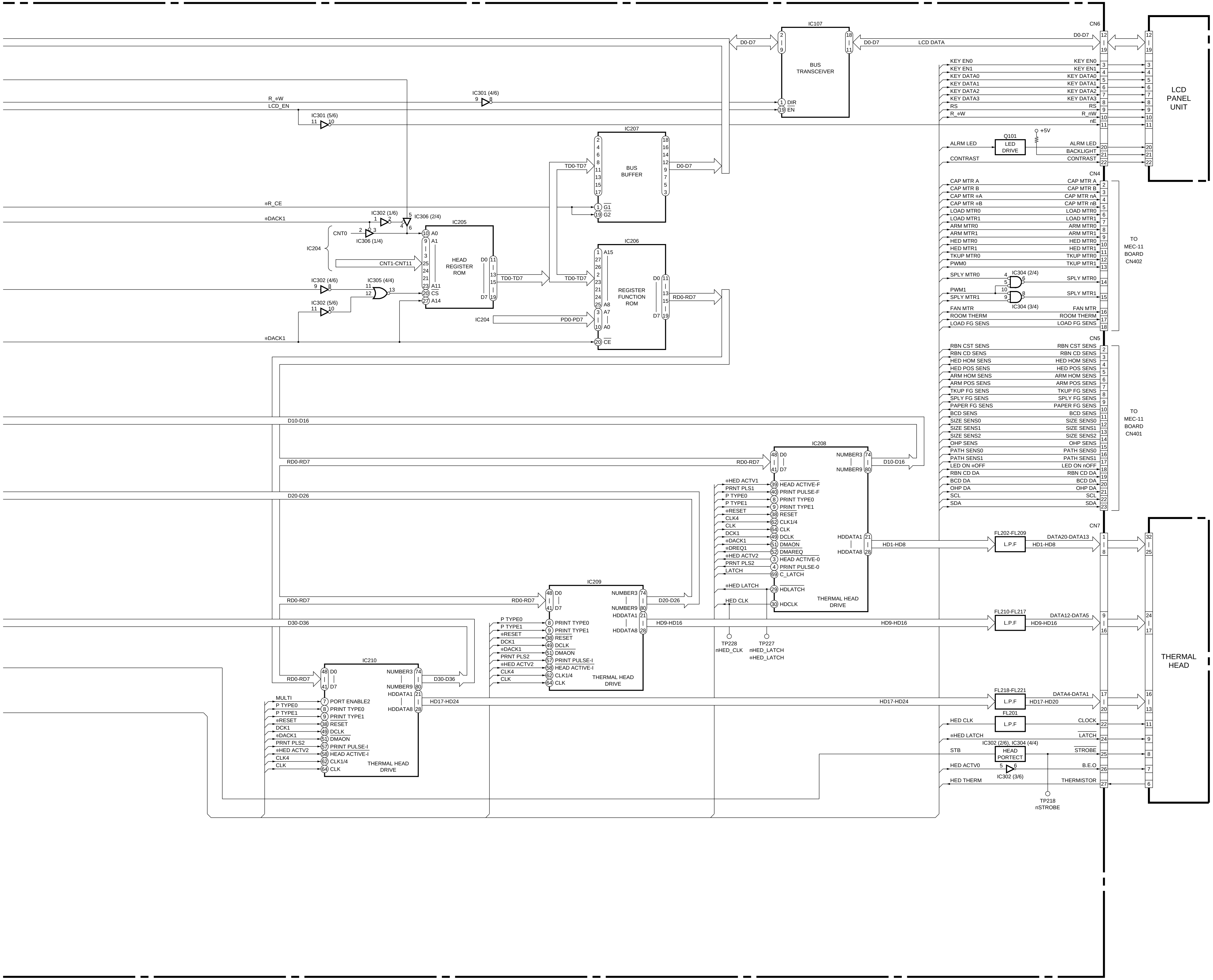

SY-270 BOARD
IC101
CPU
SERIAL & CONTROL
CPU DATA
IC107
TRANS-CEIVER
LCD DATA
LCD PANEL UNIT
KEY CONTROL
CONTRAST
IC110
D/A CONV.
VCONT
IC204
COUNT
IC205
HEAD REGISTER ROM
IC207
BUFFER
IC108
TRANS-CEIVER
PICTURE QUALITY CONTROL
IC206
REGISTER FUNCTION ROM
IC208-IC210
THERMAL HEAD DRIVE
CLK, LATCH
STROBE
THERMAL HEAD
CPU ADDRESS
CPU DATA
IC201, 202
DATA SEL
IC203
GRAY-SRAM
CONTROL
B.E.O
MAIN DATA
CONTROL
VH
IC105
PARALELL I/O
IC112
PROGRAM ROM
IC211
VOLTAGE DROP COMPEN-SATION
IC109
BUFFER
IC106
PARALELL I/O
CONTROL
CONTROL
+5 V
+12 V
+24 V
POWER SUPPLY
SCL, SDA
LED CONTROL
SENSOR
SENSOR
SENSOR
VCONT
~AC IN
MEC-11 BOARD
IC201
EEPROM
IC202, 203, Q201, 202
LED CONTROL
IC102-106, Q101
DC MOTOR DRIVER
IC101
STEPPING MOTOR DRIVER
SENSORS
(SE-497,SE-498,SE-502,SE-503, SE-504,SE-505,SE-506,SE-507)
FAN
FAN MOTOR
MTR
SUPPLY MOTOR
SU-48, SU-49, SU-50, SU-51
MTR
HEAD MOTOR
LEVEL MOTOR
LOAD MOTOR
TAKE UP MOTOR
SUPPLY MOTOR
MTR
CAPSTAN MOTOR

10-3

SYSTEM CONTROL

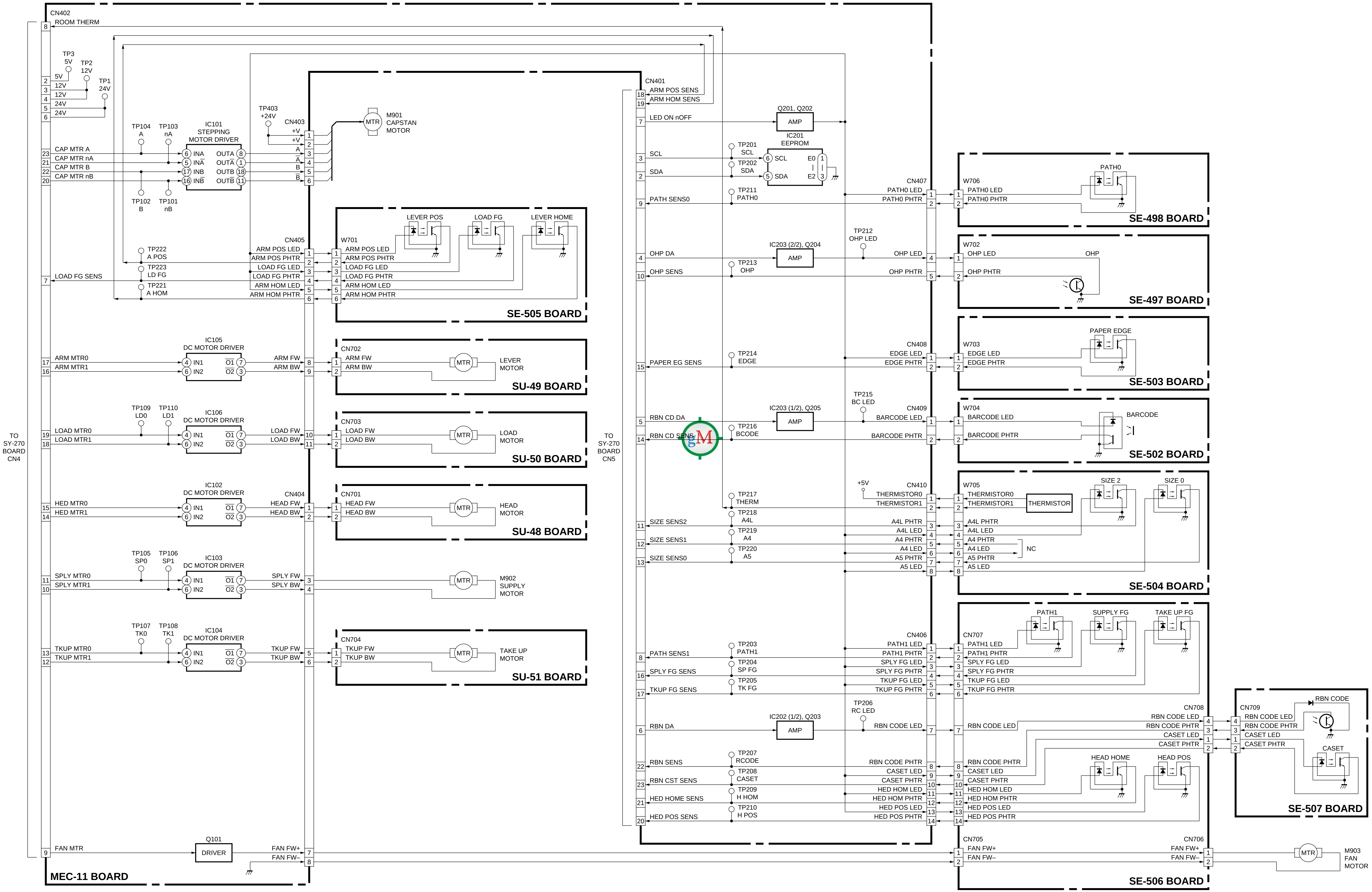

SY-270
SY-270 BOARD
CN1 (1/3)
CN1 (3/3)
CN2 (1/3)
CN2 (3/3)
CN3 (1/3)
CN3 (3/3)
CN10
TO IF-610 BOARD CN101 or FMY-15 BOARD CN201
TO POWER SUPPLY
IC101
CPU
CPU DATA BUS
CPU ADDRESS BUS
MAIN DATA BUS
IC106
PARALELL I/O
IC109
BUS BUFFER
IC108
BUS TRANSCEIVER
IC110
D/A CONVERTER
IC201, IC202
DATA SELECTOR
IC203
GRAY_SRAM
IC105
PARALELL I/O
IC211
VOLTAGE DROP COMPENSATION
IC111
RESET
IC112
PROGRAM ROM
IC113
LATCH
IC103
DEMULTIPLEXER
IC104
DEMULTIPLEXER
IC204
PICTURE QUALITY CONTROL
OSC
X202 14MHz
X201 24MHz
X101 20MHz
TH101
CAP MTR A
CAP MTR B
LOAD MTR0
LOAD MTR1
ARM MTR0
ARM MTR1
HED HOM SENS
HED POS SENS
ARM HOM SENS
ARM POS SENS
TKVP FG SENS
SPLY FG SENS
PAPER EG SENS
RBN CST SENS
HED MTR0
HED MTR1
TKUP MTR0
SPLY MTR1
SPLY MTR0
FAN MTR
ALRM LED
SIZE SENS0
SIZE SENS1
SIZE SENS2
PATH SENS0
PATH SENS1
LOAD FG SENS
HED THERM
KEY EN0
KEY EN1
KEY DATA0
KEY DATA1
KEY DATA2
KEY DATA3
RBN CD SENS
BCD SENS
OHP SENS
ROOM THERM
PWM0
PWM1
CONTRAST
VCONT
SDA
SCL
PRINTD0-PRINTD7
MDB0-MDB7
D0-D7
A0-A15
A0-A8
D10-D16
D20-D26
D30-D36
CLK
CLK4
STB
IC204
IC209
IC210
+5V
+12V
+24V

SYSTEM CONTROL


IC107
BUS TRANSCEIVER
D0-D7
LCD DATA
DIR
EN
CN6
LCD PANEL UNIT
KEY EN0
KEY EN1
KEY DATA0
KEY DATA1
KEY DATA2
KEY DATA3
RS
R_nW
nE
LCD_EN
IC301 (4/6)
IC301 (5/6)
Q101
LED DRIVE
+5V
ALRM LED
BACKLIGHT
CONTRAST
IC207
BUS BUFFER
TD0-TD7
G1
G2
nR_CE
nDACK1
IC302 (1/6)
IC306 (2/4)
IC306 (1/4)
CNT0
IC204
CNT1-CNT11
IC205
HEAD REGISTER ROM
A0
A1
A11
CS
A14
IC302 (4/6)
IC305 (4/4)
IC302 (5/6)
IC206
REGISTER FUNCTION ROM
A15
A8
A7
A0
CE
PD0-PD7
RD0-RD7
CN4
CAP MTR A
CAP MTR B
CAP MTR nA
CAP MTR nB
LOAD MTR0
LOAD MTR1
ARM MTR0
ARM MTR1
HED MTR0
HED MTR1
TKUP MTR0
TKUP MTR1
PWM0
SPLY MTR0
PWM1
SPLY MTR1
IC304 (2/4)
IC304 (3/4)
FAN MTR
ROOM THERM
LOAD FG SENS
TO MEC-11 BOARD CN402
CN5
RBN CST SENS
RBN CD SENS
HED HOM SENS
HED POS SENS
ARM HOM SENS
ARM POS SENS
TKUP FG SENS
SPLY FG SENS
PAPER FG SENS
BCD SENS
SIZE SENS0
SIZE SENS1
SIZE SENS2
OHP SENS
PATH SENS0
PATH SENS1
LED ON nOFF
RBN CD DA
BCD DA
OHP DA
SCL
SDA
TO MEC-11 BOARD CN401
D10-D16
D20-D26
D30-D36
IC208
NUMBER3
NUMBER9
HEAD ACTIVE-F
PRINT PULSE-F
PRINT TYPE0
PRINT TYPE1
RESET
CLK1/4
CLK
DCLK
DMAON
DMAREQ
HEAD ACTIVE-0
PRINT PULSE-0
C_LATCH
HDLATCH
HDCLK
HDDATA1
HDDATA8
THERMAL HEAD DRIVE
nHED ACTV1
PRNT PLS1
P TYPE0
P TYPE1
nRESET
CLK4
DCK1
nDACK1
nDREQ1
nHED ACTV2
PRNT PLS2
LATCH
nHED LATCH
HED CLK
TP228 nHED_CLK
TP227 nHED_LATCH nHED_LATCH
IC209
HEAD ACTIVE-I
PRINT PULSE-I
HD9-HD16
IC210
MULTI
PORT ENABLE2
HD17-HD24
CN7
FL202-FL209
L.P.F
HD1-HD8
DATA20-DATA13
FL210-FL217
DATA12-DATA5
FL218-FL221
HD17-HD20
DATA4-DATA1
FL201
CLOCK
STB
STROBE
HEAD PORTECT
IC302 (2/6), IC304 (4/4)
HED ACTV0
B.E.O
IC302 (3/6)
HED THERM
THERMISTOR
TP218 nSTROBE
THERMAL HEAD

MECHANISM INTERFACE

MECHANISM INTERFACE


CN402
ROOM THERM
TP3 5V
TP2 12V
TP1 24V
5V
12V
12V
24V
24V
CAP MTR A
CAP MTR nA
CAP MTR B
CAP MTR nB
TP104 A
TP103 nA
TP102 B
TP101 nB
IC101 STEPPING MOTOR DRIVER
INA
INA
INB
INB
OUTA
OUTA
OUTB
OUTB
TP403 +24V
CN403
+V
+V
A
A
B
B
M901 CAPSTAN MOTOR
MTR
CN405
ARM POS LED
ARM POS PHTR
LOAD FG LED
LOAD FG PHTR
ARM HOM LED
ARM HOM PHTR
TP222 A POS
TP223 LD FG
TP221 A HOM
LOAD FG SENS
W701
LEVER POS
LOAD FG
LEVER HOME
SE-505 BOARD
IC105 DC MOTOR DRIVER
ARM MTR0
ARM MTR1
IN1
IN2
O1
O2
ARM FW
ARM BW
CN702
LEVER MOTOR
SU-49 BOARD
TP109 LD0
TP110 LD1
IC106 DC MOTOR DRIVER
LOAD MTR0
LOAD MTR1
LOAD FW
LOAD BW
CN703
LOAD MOTOR
SU-50 BOARD
TO SY-270 BOARD CN4
IC102 DC MOTOR DRIVER
CN404
HED MTR0
HED MTR1
HEAD FW
HEAD BW
CN701
HEAD MOTOR
SU-48 BOARD
TP105 SP0
TP106 SP1
IC103 DC MOTOR DRIVER
SPLY MTR0
SPLY MTR1
SPLY FW
SPLY BW
M902 SUPPLY MOTOR
TP107 TK0
TP108 TK1
IC104 DC MOTOR DRIVER
TKUP MTR0
TKUP MTR1
TKUP FW
TKUP BW
CN704
TAKE UP MOTOR
SU-51 BOARD
FAN MTR
Q101
DRIVER
FAN FW+
FAN FW–
MEC-11 BOARD
TO SY-270 BOARD CN5
CN401
ARM POS SENS
ARM HOM SENS
LED ON nOFF
Q201, Q202
AMP
SCL
SDA
TP201 SCL
TP202 SDA
IC201 EEPROM
E0
E2
PATH SENS0
TP211 PATH0
CN407
PATH0 LED
PATH0 PHTR
W706
PATH0
SE-498 BOARD
TP212 OHP LED
OHP DA
IC203 (2/2), Q204
OHP LED
OHP SENS
TP213 OHP
OHP PHTR
W702
OHP
SE-497 BOARD
PAPER EG SENS
TP214 EDGE
CN408
EDGE LED
EDGE PHTR
W703
PAPER EDGE
SE-503 BOARD
TP215 BC LED
RBN CD DA
IC203 (1/2), Q205
CN409
BARCODE LED
RBN CD SENS
TP216 BCODE
BARCODE PHTR
W704
BARCODE
SE-502 BOARD
+5V
CN410
THERMISTOR0
THERMISTOR1
TP217 THERM
W705
THERMISTOR
SIZE 2
SIZE 0
SIZE SENS2
SIZE SENS1
SIZE SENS0
TP218 A4L
TP219 A4
TP220 A5
A4L PHTR
A4L LED
A4 PHTR
A4 LED
A5 PHTR
A5 LED
NC
SE-504 BOARD
CN406
PATH SENS1
SPLY FG SENS
TKUP FG SENS
TP203 PATH1
TP204 SP FG
TP205 TK FG
PATH1 LED
PATH1 PHTR
SPLY FG LED
SPLY FG PHTR
TKUP FG LED
TKUP FG PHTR
CN707
PATH1
SUPPLY FG
TAKE UP FG
TP206 RC LED
RBN DA
IC202 (1/2), Q203
RBN CODE LED
CN708
RBN CODE PHTR
CASET LED
CASET PHTR
CN709
RBN CODE
CASET
SE-507 BOARD
RBN SENS
RBN CST SENS
HED HOME SENS
HED POS SENS
TP207 RCODE
TP208 CASET
TP209 H HOM
TP210 H POS
HED HOM LED
HED HOM PHTR
HED POS LED
HED POS PHTR
HEAD HOME
HEAD POS
CN705
CN706
M903 FAN MOTOR
SE-506 BOARD

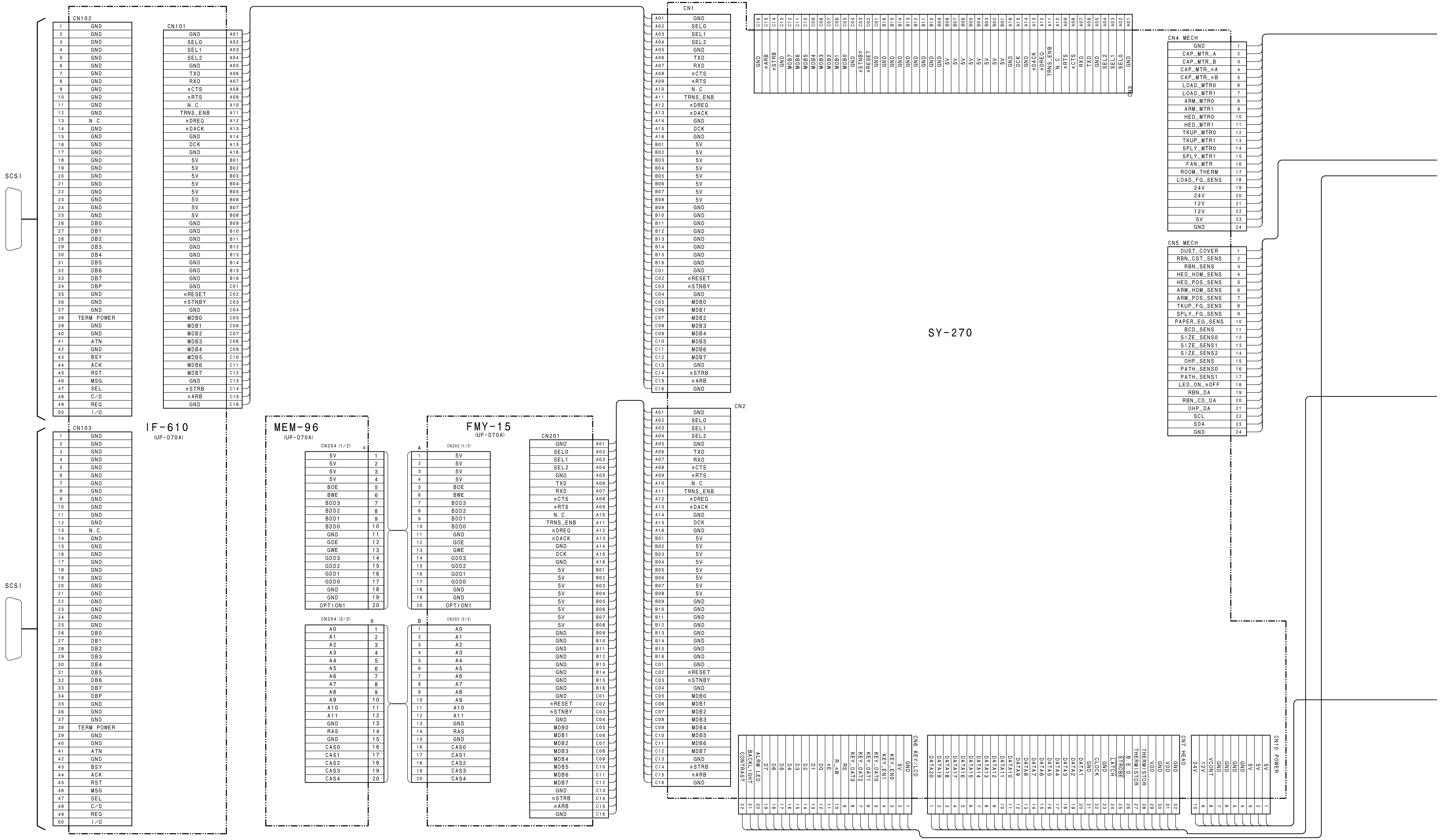
SECTION 11
PRINTED WIRING BOARDS AND SCHEMATIC DIAGRAMS

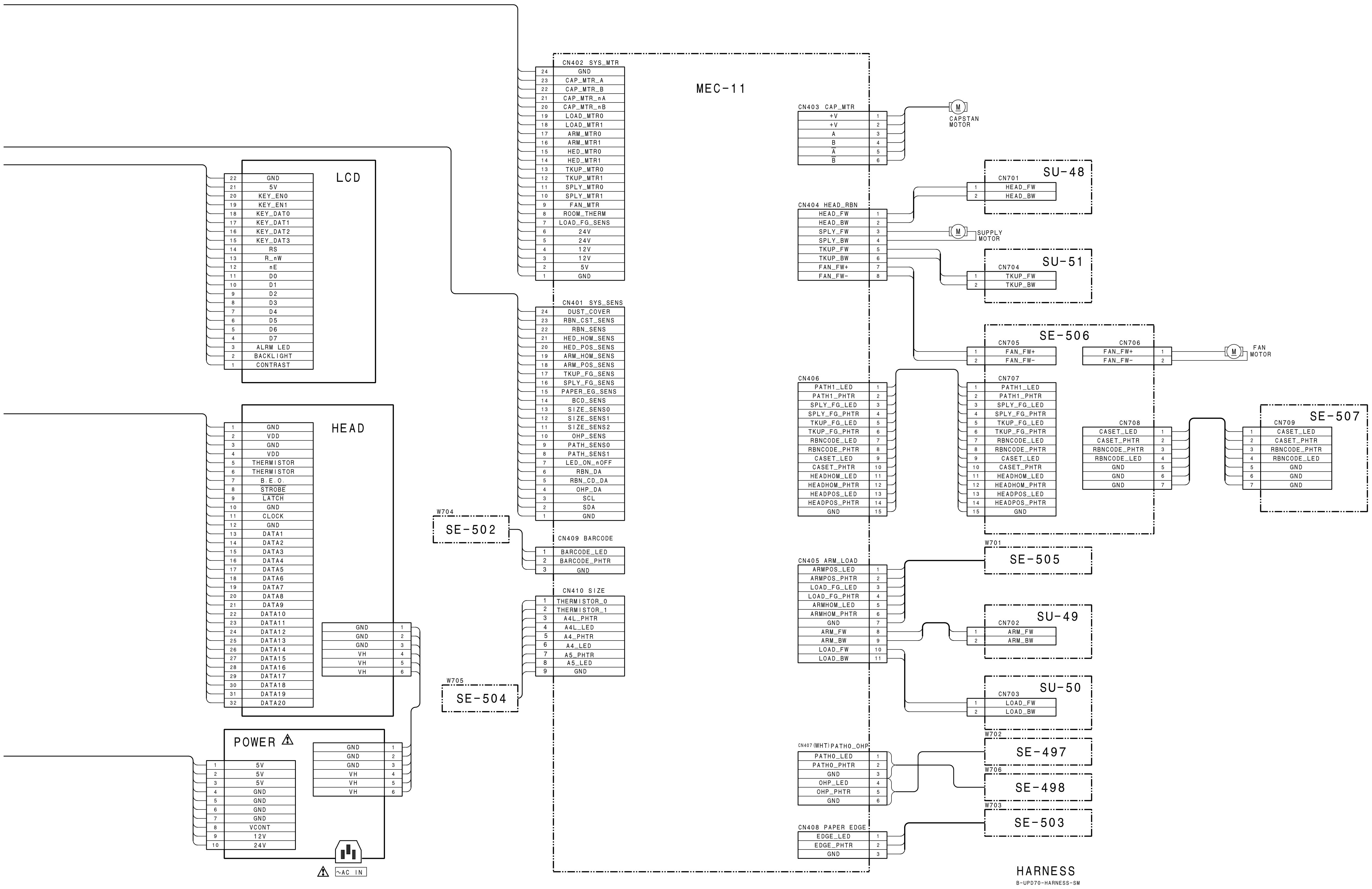
Note: The components identified by mark ⚠ are critical for safety. Replace only with part number specified.

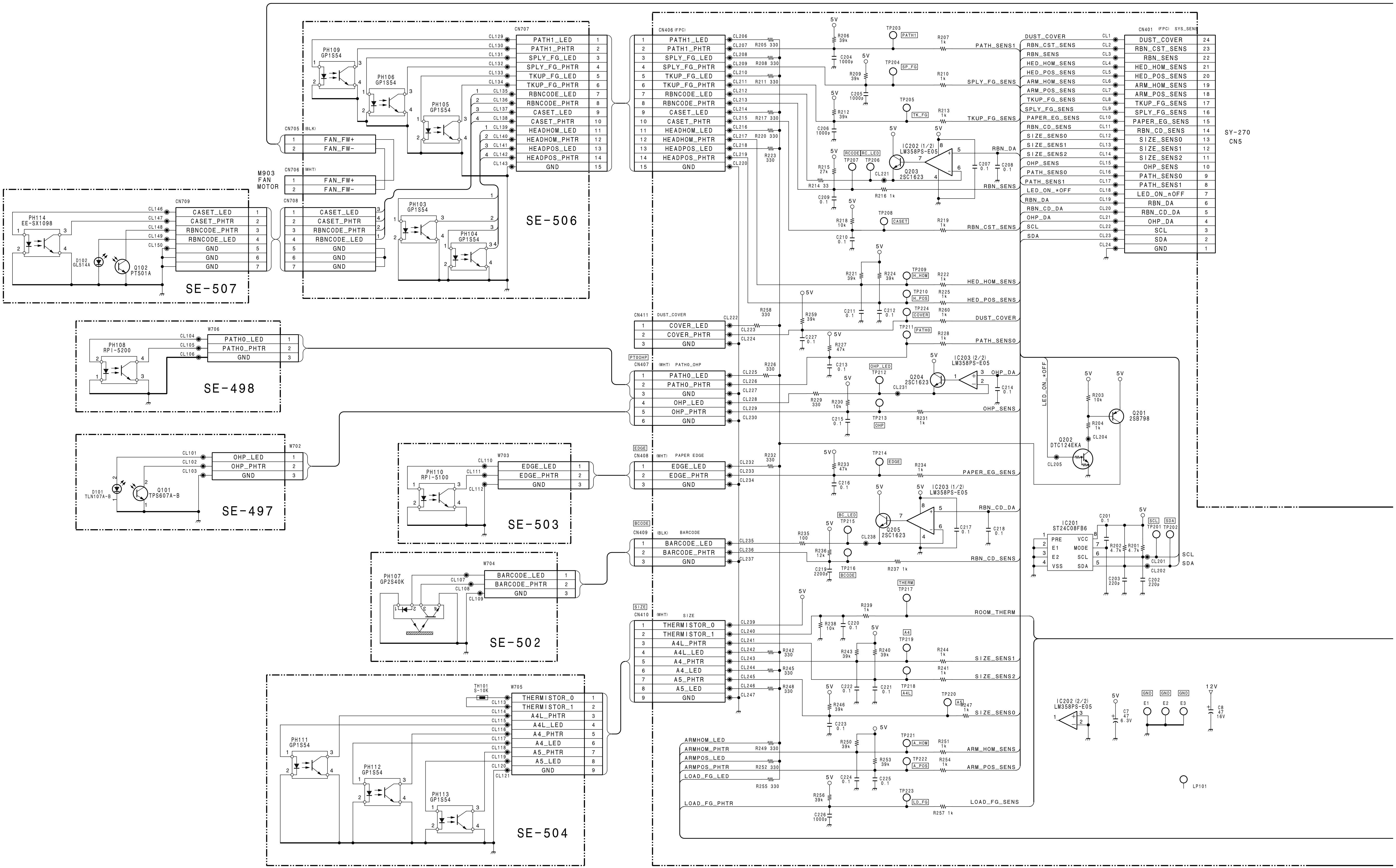
Note: Les composants identifiés par une marque ⚠ sont d'une importance critique pour la sécurité. Ne les remplacer que par des pièces de numéro spécifié.

HARNESS

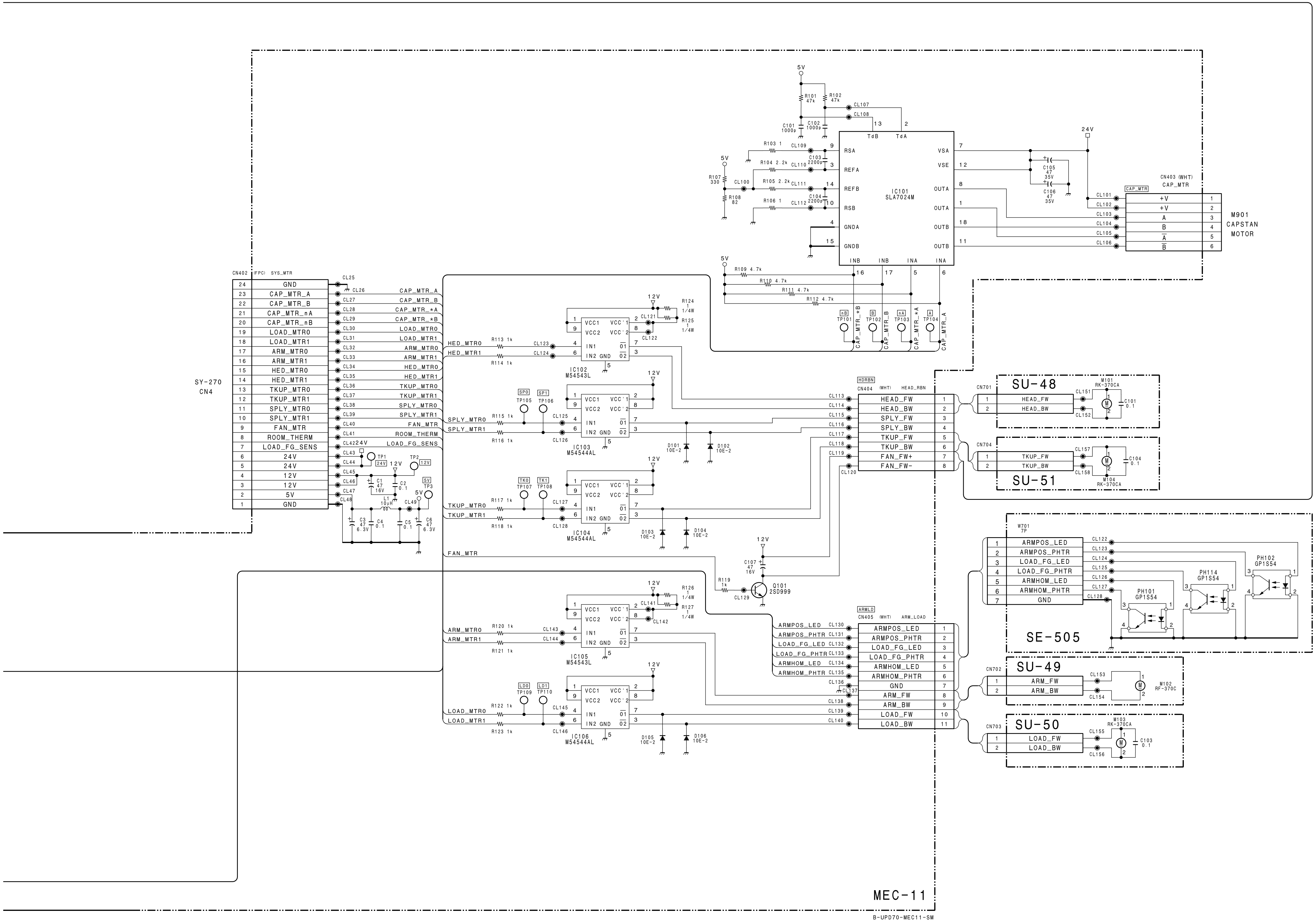
HARNESS

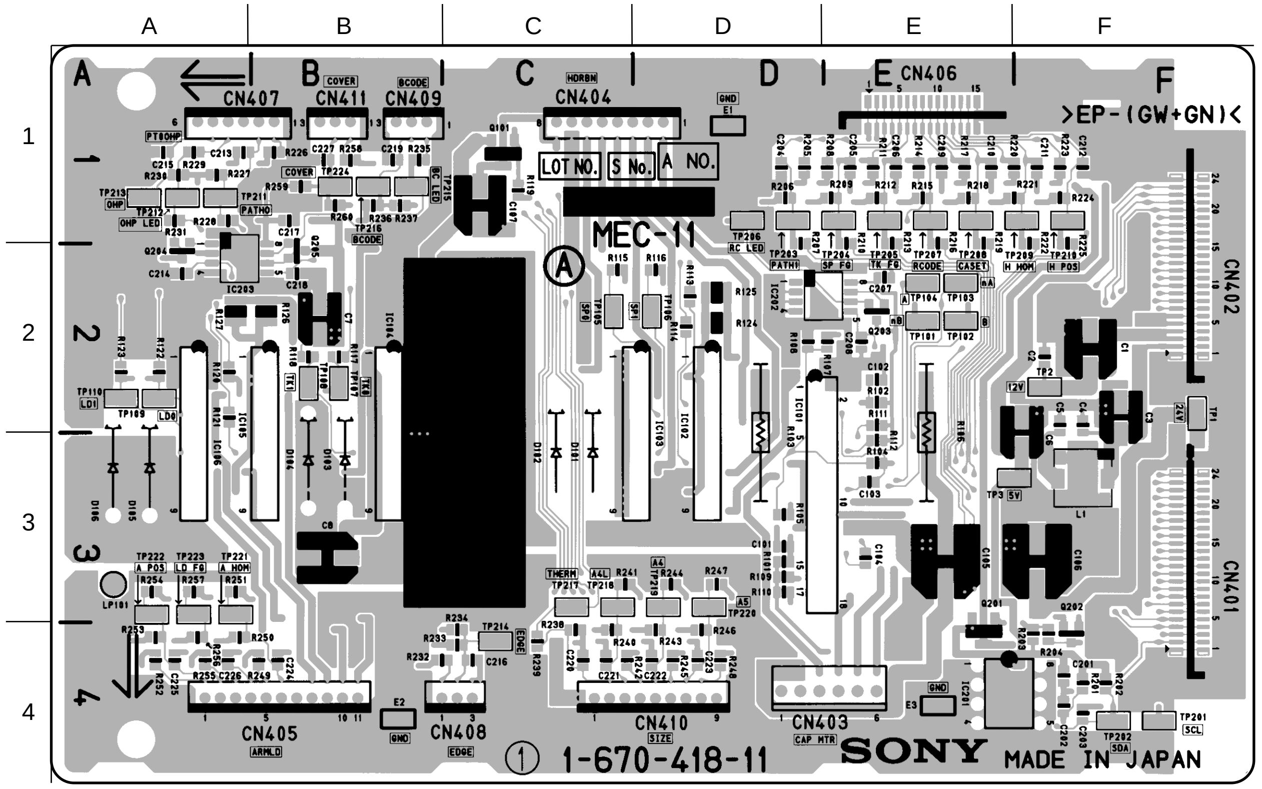

SCSI
SCSI
CN102
CN101
CN103
IF-610
(UP-D70A)
MEM-96
(UP-D70A)
CN204 (1/2)
CN204 (2/2)
FMY-15
(UP-D70A)
CN202 (1/2)
CN202 (2/2)
CN201
CN1
CN2
CN3
SY-270
CN4 MECH
GND
CAP_MTR_A
CAP_MTR_B
CAP_MTR_nA
CAP_MTR_nB
LOAD_MTR0
LOAD_MTR1
ARM_MTR0
ARM_MTR1
HED_MTR0
HED_MTR1
TKUP_MTR0
TKUP_MTR1
SPLY_MTR0
SPLY_MTR1
FAN_MTR
ROOM_THERM
LOAD_FG_SENS
24V
24V
12V
12V
5V
GND
CN5 MECH
DUST_COVER
RBN_CST_SENS
RBN_SENS
HED_HOM_SENS
HED_POS_SENS
ARM_HOM_SENS
ARM_POS_SENS
TKUP_FG_SENS
SPLY_FG_SENS
PAPER_EG_SENS
BCD_SENS
SIZE_SENS0
SIZE_SENS1
SIZE_SENS2
OHP_SENS
PATH_SENS0
PATH_SENS1
LED_ON_nOFF
RBN_DA
RBN_CD_DA
OHP_DA
SCL
SDA
GND
CN6 KEY/LCD
CN7 HEAD
CN10 POWER
1
2
3
4
5
A
B
C
D
E
F
G
H


MEC-11
CN402 SYS_MTR
24 GND
23 CAP_MTR_A
22 CAP_MTR_B
21 CAP_MTR_nA
20 CAP_MTR_nB
19 LOAD_MTR0
18 LOAD_MTR1
17 ARM_MTR0
16 ARM_MTR1
15 HED_MTR0
14 HED_MTR1
13 TKUP_MTR0
12 TKUP_MTR1
11 SPLY_MTR0
10 SPLY_MTR1
9 FAN_MTR
8 ROOM_THERM
7 LOAD_FG_SENS
6 24V
5 24V
4 12V
3 12V
2 5V
1 GND
CN401 SYS_SENS
24 DUST_COVER
23 RBN_CST_SENS
22 RBN_SENS
21 HED_HOM_SENS
20 HED_POS_SENS
19 ARM_HOM_SENS
18 ARM_POS_SENS
17 TKUP_FG_SENS
16 SPLY_FG_SENS
15 PAPER_EG_SENS
14 BCD_SENS
13 SIZE_SENS0
12 SIZE_SENS1
11 SIZE_SENS2
10 OHP_SENS
9 PATH_SENS0
8 PATH_SENS1
7 LED_ON_nOFF
6 RBN_DA
5 RBN_CD_DA
4 OHP_DA
3 SCL
2 SDA
1 GND
CN409 BARCODE
1 BARCODE_LED
2 BARCODE_PHTR
3 GND
CN410 SIZE
1 THERMISTOR_0
2 THERMISTOR_1
3 A4L_PHTR
4 A4L_LED
5 A4_PHTR
6 A4_LED
7 A5_PHTR
8 A5_LED
9 GND
W704
SE-502
W705
SE-504
LCD
22 GND
21 5V
20 KEY_EN0
19 KEY_EN1
18 KEY_DAT0
17 KEY_DAT1
16 KEY_DAT2
15 KEY_DAT3
14 RS
13 R_nW
12 nE
11 D0
10 D1
9 D2
8 D3
7 D4
6 D5
5 D6
4 D7
3 ALRM LED
2 BACKLIGHT
1 CONTRAST
HEAD
1 GND
2 VDD
3 GND
4 VDD
5 THERMISTOR
6 THERMISTOR
7 B.E.O.
8 STROBE
9 LATCH
10 GND
11 CLOCK
12 GND
13 DATA1
14 DATA2
15 DATA3
16 DATA4
17 DATA5
18 DATA6
19 DATA7
20 DATA8
21 DATA9
22 DATA10
23 DATA11
24 DATA12
25 DATA13
26 DATA14
27 DATA15
28 DATA16
29 DATA17
30 DATA18
31 DATA19
32 DATA20
GND 1
GND 2
GND 3
VH 4
VH 5
VH 6
POWER ⚠
1 5V
2 5V
3 5V
4 GND
5 GND
6 GND
7 GND
8 VCONT
9 12V
10 24V
GND 1
GND 2
GND 3
VH 4
VH 5
VH 6
⚠ ~AC IN
CN403 CAP_MTR
+V 1
+V 2
A 3
B 4
A 5
B 6
M
CAPSTAN MOTOR
CN404 HEAD_RBN
HEAD_FW 1
HEAD_BW 2
SPLY_FW 3
SPLY_BW 4
TKUP_FW 5
TKUP_BW 6
FAN_FW+ 7
FAN_FW- 8
SU-48
CN701
1 HEAD_FW
2 HEAD_BW
M
SUPPLY MOTOR
SU-51
CN704
1 TKUP_FW
2 TKUP_BW
SE-506
CN705
1 FAN_FW+
2 FAN_FW-
CN706
FAN_FW+ 1
FAN_FW- 2
M
FAN MOTOR
CN406
PATH1_LED 1
PATH1_PHTR 2
SPLY_FG_LED 3
SPLY_FG_PHTR 4
TKUP_FG_LED 5
TKUP_FG_PHTR 6
RBNCODE_LED 7
RBNCODE_PHTR 8
CASET_LED 9
CASET_PHTR 10
HEADHOM_LED 11
HEADHOM_PHTR 12
HEADPOS_LED 13
HEADPOS_PHTR 14
GND 15
CN707
1 PATH1_LED
2 PATH1_PHTR
3 SPLY_FG_LED
4 SPLY_FG_PHTR
5 TKUP_FG_LED
6 TKUP_FG_PHTR
7 RBNCODE_LED
8 RBNCODE_PHTR
9 CASET_LED
10 CASET_PHTR
11 HEADHOM_LED
12 HEADHOM_PHTR
13 HEADPOS_LED
14 HEADPOS_PHTR
15 GND
CN708
CASET_LED 1
CASET_PHTR 2
RBNCODE_PHTR 3
RBNCODE_LED 4
GND 5
GND 6
GND 7
SE-507
CN709
1 CASET_LED
2 CASET_PHTR
3 RBNCODE_PHTR
4 RBNCODE_LED
5 GND
6 GND
7 GND
W701
SE-505
CN405 ARM_LOAD
ARMPOS_LED 1
ARMPOS_PHTR 2
LOAD_FG_LED 3
LOAD_FG_PHTR 4
ARMHOM_LED 5
ARMHOM_PHTR 6
GND 7
ARM_FW 8
ARM_BW 9
LOAD_FW 10
LOAD_BW 11
SU-49
CN702
1 ARM_FW
2 ARM_BW
SU-50
CN703
1 LOAD_FW
2 LOAD_BW
CN407 (WHT) PATH0_OHP
PATH0_LED 1
PATH0_PHTR 2
GND 3
OHP_LED 4
OHP_PHTR 5
GND 6
W702
SE-497
W706
SE-498
W703
SE-503
CN408 PAPER EDGE
EDGE_LED 1
EDGE_PHTR 2
GND 3
HARNESS
B-UPD70-HARNESS-SM

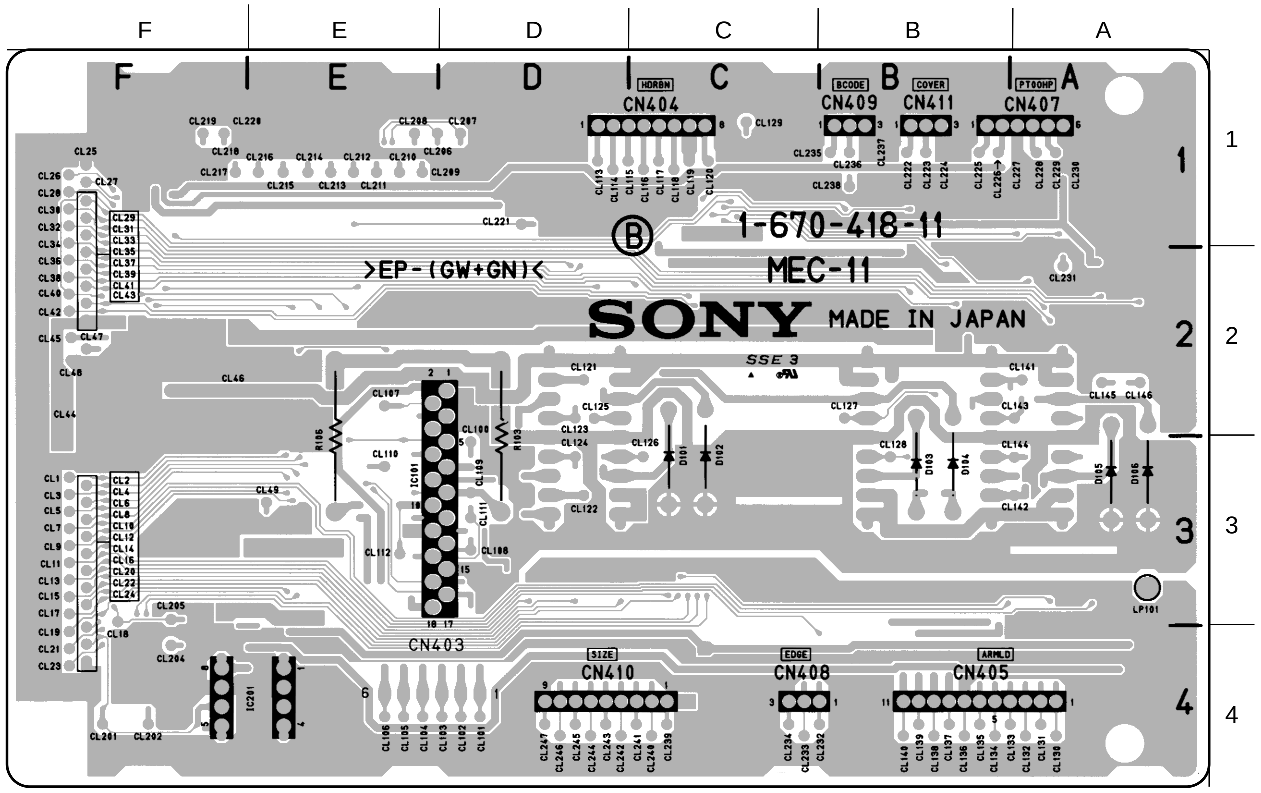

1
2
3
4
5
A
B
C
D
E
F
G
H
SE-506
SE-507
SE-498
SE-497
SE-503
SE-502
SE-504
M903 FAN MOTOR
CN705 (BLK)
CN706 (WHT)
FAN_FW+
FAN_FW-
CN707
CN708
CN709
CN406 (FPC)
PATH1_LED
PATH1_PHTR
SPLY_FG_LED
SPLY_FG_PHTR
TKUP_FG_LED
TKUP_FG_PHTR
RBNCODE_LED
RBNCODE_PHTR
CASET_LED
CASET_PHTR
HEADHOM_LED
HEADHOM_PHTR
HEADPOS_LED
HEADPOS_PHTR
GND
PH109 GP1S54
PH106 GP1S54
PH105 GP1S54
PH103 GP1S54
PH104 GP1S54
PH114 EE-SX1098
D102 GL514A
Q102 PT501A
PH108 RPI-5200
W706
PATH0_LED
PATH0_PHTR
D101 TLN107A-B
Q101 TPS607A-B
W702
OHP_LED
OHP_PHTR
PH110 RPI-5100
W703
EDGE_LED
EDGE_PHTR
PH107 GP2S40K
W704
BARCODE_LED
BARCODE_PHTR
TH101 S-10K
W705
THERMISTOR_0
THERMISTOR_1
A4L_PHTR
A4L_LED
A4_PHTR
A4_LED
A5_PHTR
A5_LED
PH111 GP1S54
PH112 GP1S54
PH113 GP1S54
CN411 DUST_COVER
COVER_LED
COVER_PHTR
CN407 (WHT) PATH0_OHP
CN408 (WHT) PAPER EDGE
CN409 (BLK) BARCODE
CN410 (WHT) SIZE
IC202 (1/2) LM358PS-E05
IC202 (2/2) LM358PS-E05
IC203 (1/2) LM358PS-E05
IC203 (2/2) LM358PS-E05
Q203 2SC1623
Q204 2SC1623
Q205 2SC1623
Q201 2SB798
Q202 DTC124EKA
IC201 ST24C08FB6
PRE
E1
E2
VSS
VCC
MODE
SCL
SDA
PATH_SENS1
SPLY_FG_SENS
TKUP_FG_SENS
RBN_DA
RBN_SENS
RBN_CST_SENS
HED_HOM_SENS
HED_POS_SENS
DUST_COVER
PATH_SENS0
OHP_DA
OHP_SENS
PAPER_EG_SENS
RBN_CD_DA
RBN_CD_SENS
ROOM_THERM
SIZE_SENS1
SIZE_SENS2
SIZE_SENS0
ARM_HOM_SENS
ARM_POS_SENS
LOAD_FG_SENS
ARMHOM_LED
ARMHOM_PHTR
ARMPOS_LED
ARMPOS_PHTR
LOAD_FG_LED
LOAD_FG_PHTR
LED_ON_*OFF
CN401 (FPC) SYS_SENS
DUST_COVER
RBN_CST_SENS
RBN_SENS
HED_HOM_SENS
HED_POS_SENS
ARM_HOM_SENS
ARM_POS_SENS
TKUP_FG_SENS
SPLY_FG_SENS
PAPER_EG_SENS
RBN_CD_SENS
SIZE_SENS0
SIZE_SENS1
SIZE_SENS2
OHP_SENS
PATH_SENS0
PATH_SENS1
LED_ON_nOFF
RBN_DA
RBN_CD_DA
OHP_DA
SCL
SDA
GND
SY-270 CN5
5V
12V
LP101
E1
E2
E3
C7 47 6.3V
C8 47 16V

http://getMANUAL.com

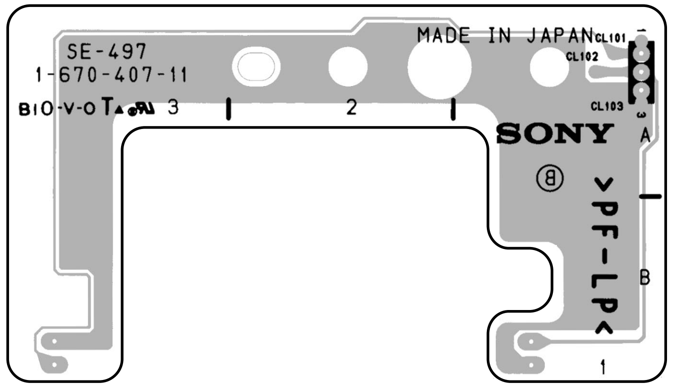

CN402 (FPC) SYS_MTR
SY-270
CN4
GND
CAP_MTR_A
CAP_MTR_B
CAP_MTR_nA
CAP_MTR_nB
LOAD_MTR0
LOAD_MTR1
ARM_MTR0
ARM_MTR1
HED_MTR0
HED_MTR1
TKUP_MTR0
TKUP_MTR1
SPLY_MTR0
SPLY_MTR1
FAN_MTR
ROOM_THERM
LOAD_FG_SENS
24V
12V
5V
IC101
SLA7024M
RSA
REFA
REFB
RSB
GNDA
GNDB
VSA
VSE
OUTA
OUTB
INB
INA
TdB
TdA
CN403 (WHT)
CAP_MTR
+V
A
B
M901
CAPSTAN
MOTOR
IC102
M54543L
IC103
M54544AL
IC104
M54544AL
IC105
M54543L
IC106
M54544AL
VCC1
VCC2
IN1
IN2
GND
Q101
2SD999
CN404 (WHT) HEAD_RBN
HDRBN
HEAD_FW
HEAD_BW
SPLY_FW
SPLY_BW
TKUP_FW
TKUP_BW
FAN_FW+
FAN_FW-
CN405 (WHT) ARM_LOAD
ARMLD
ARMPOS_LED
ARMPOS_PHTR
LOAD_FG_LED
LOAD_FG_PHTR
ARMHOM_LED
ARMHOM_PHTR
ARM_FW
ARM_BW
LOAD_FW
LOAD_BW
SU-48
M101
RK-370CA
CN701
SU-51
M104
RK-370CA
CN704
W701
7P
SE-505
PH101
GP1S54
PH114
GP1S54
PH102
GP1S54
SU-49
CN702
M102
RF-370C
SU-50
CN703
M103
RK-370CA
MEC-11
B-UPD70-MEC11-SM


A
B
C
D
E
F
1
2
3
4
CN407
CN411
CN409
CN404
CN406
CN402
CN401
CN405
CN408
CN410
CN403
MEC-11
LOT NO.
S No.
A NO.
>EP-(GW+GN)<
1-670-418-11
SONY
MADE IN JAPAN

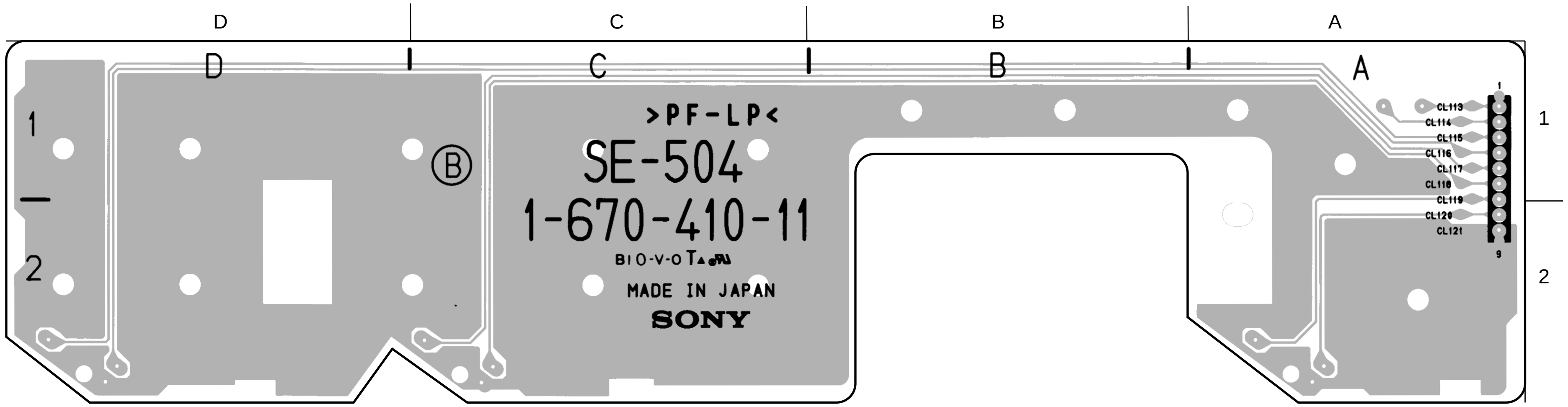
MEC-11 **-A SIDE-**
SUFFIX : -11


F
E
D
C
B
A
1
2
3
4
CN404
CN409
CN411
CN407
1-670-418-11
MEC-11
>EP-(GW+GN)<
SONY
MADE IN JAPAN
CN403
CN410
CN408
CN405

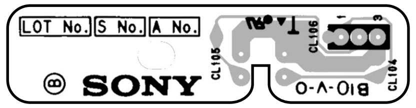
MEC-11 **-B SIDE-**
SUFFIX : -11


SE-497
1-670-407-11
MADE IN JAPAN
SONY
>PF-LP<
A
B
1
2
3

SE-497 **-B SIDE-**
SUFFIX : -11

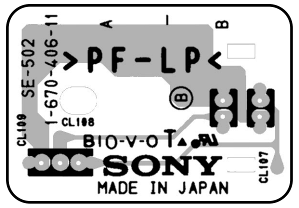

D
C
B
A
1
2
>PF-LP<
SE-504
1-670-410-11
MADE IN JAPAN
SONY

SE-504 **-B SIDE-**
SUFFIX : -11

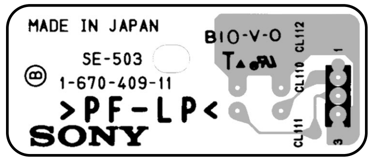

LOT No.
S No.
A No.
SONY

SE-498 **-B SIDE-**
SUFFIX : -11

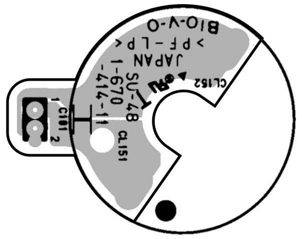
SE-502, SE-503, SE-505, SE-506, SE-507,
SU-48, SU-49, SU-50, SU-51


SE-502
1-670-406-11
>PF-LP<
CL188
CL189
B1O-V-O
SONY
MADE IN JAPAN
CL187

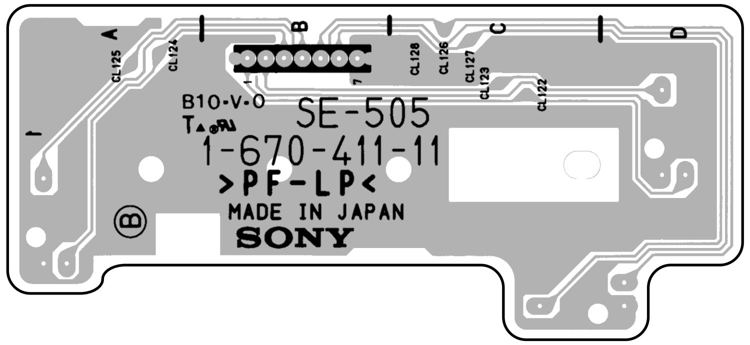
SE-502 -B SIDE-
SUFFIX : -11


MADE IN JAPAN
SE-503
1-670-409-11
>PF-LP<
SONY
B1O-V-O
CL110
CL111
CL112

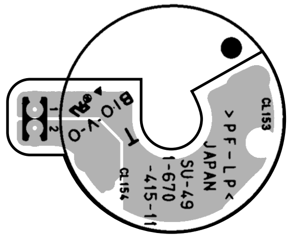
SE-503 -B SIDE-
SUFFIX : -11


B1O-V-O
>PF-LP<
JAPAN
SU-48
1-670-414-11
CL151
CL152

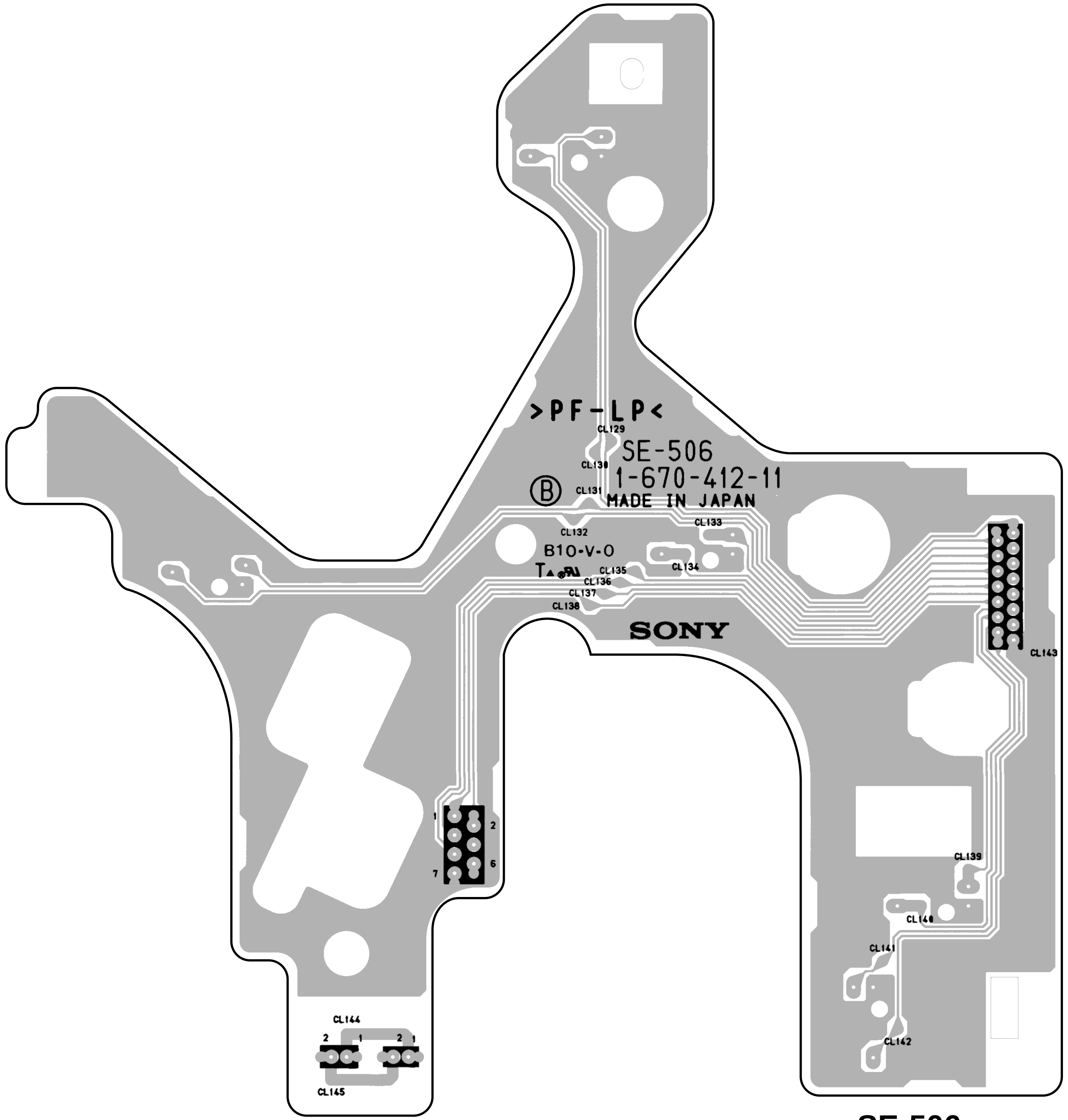
SU-48 -B SIDE-
SUFFIX : -11


A
B
C
D
CL125
CL124
CL128
CL126
CL127
CL123
CL122
B1O-V-O
SE-505
1-670-411-11
>PF-LP<
MADE IN JAPAN
SONY

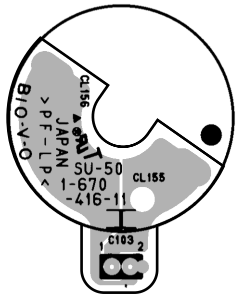
SE-505 -B SIDE-
SUFFIX : -11


B1O-V-O
>PF-LP<
JAPAN
SU-49
1-670-415-11
CL153
CL154

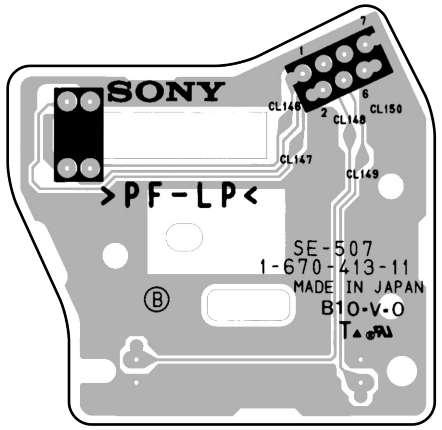
SU-49 -B SIDE-
SUFFIX : -11


>PF-LP<
CL129
CL130
CL131
SE-506
1-670-412-11
MADE IN JAPAN
CL132
CL133
B1O-V-O
CL134
CL135
CL136
CL137
CL138
SONY
CL143
CL139
CL140
CL141
CL142
CL144
CL145

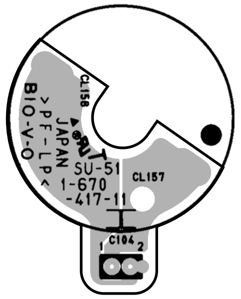
SE-506 -B SIDE-
SUFFIX : -11


CL156
B1O-V-O
>PF-LP<
JAPAN
SU-50
1-670-416-11
CL155
C103

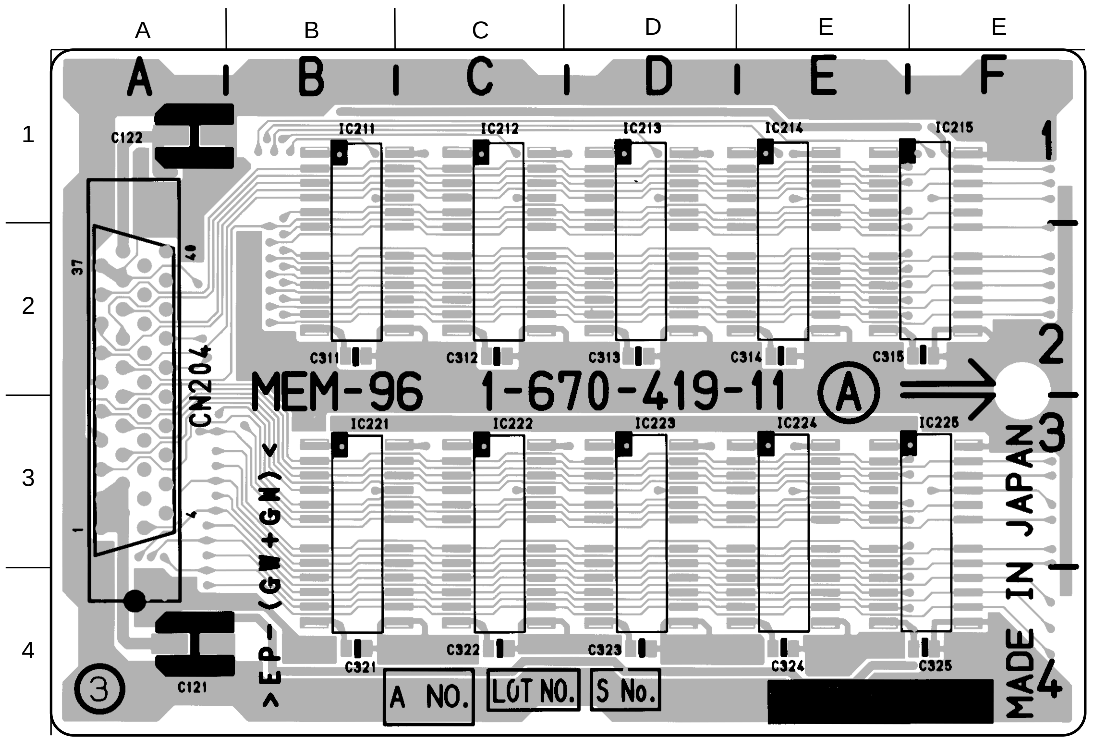
SU-50 -B SIDE-
SUFFIX : -11


SONY
CL146
CL148
CL150
CL147
CL149
>PF-LP<
SE-507
1-670-413-11
MADE IN JAPAN
B1O-V-O

SE-507 -B SIDE-
SUFFIX : -11

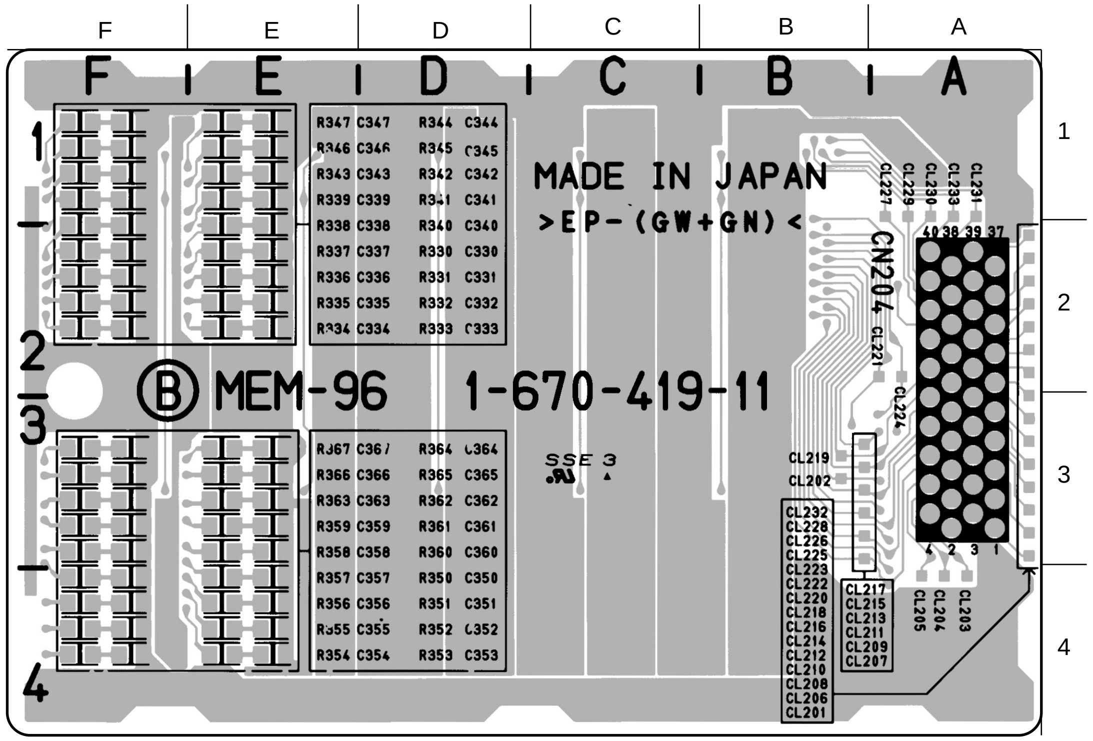

CL158
B1O-V-O
>PF-LP<
JAPAN
SU-51
1-670-417-11
CL157
C104

SU-51 -B SIDE-
SUFFIX : -11


A
B
C
D
E
E
1
2
3
4
C122
C121
CN204
37
40
IC211
IC212
IC213
IC214
IC215
C311
C312
C313
C314
C315
IC221
IC222
IC223
IC224
IC225
C321
C322
C323
C324
C325
MEM-96 1-670-419-11
Ⓐ
>EP-(GW+GN)<
MADE IN JAPAN
A NO.
LOT NO.
S No.
③

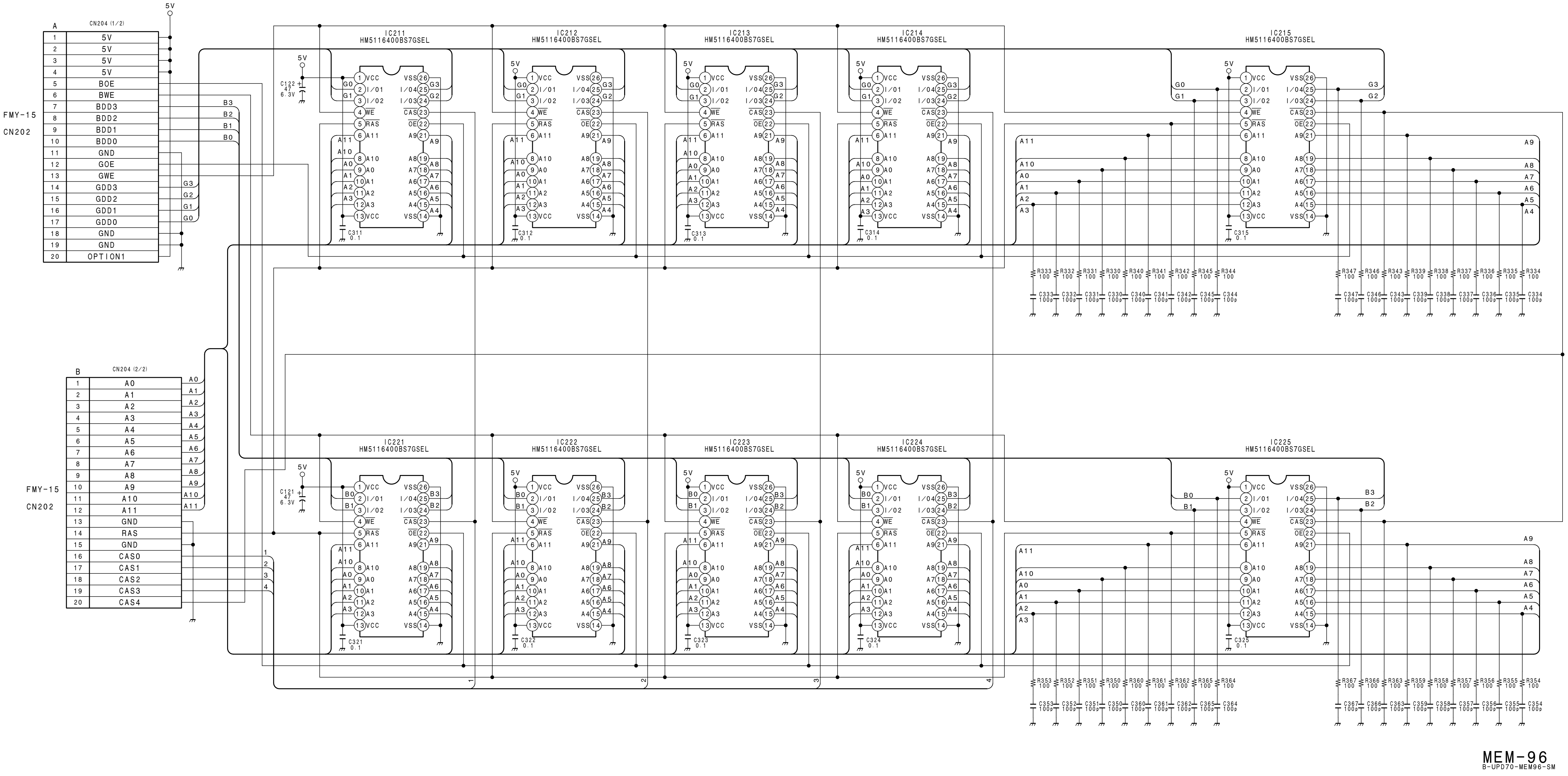
MEM-96 **-A SIDE-**

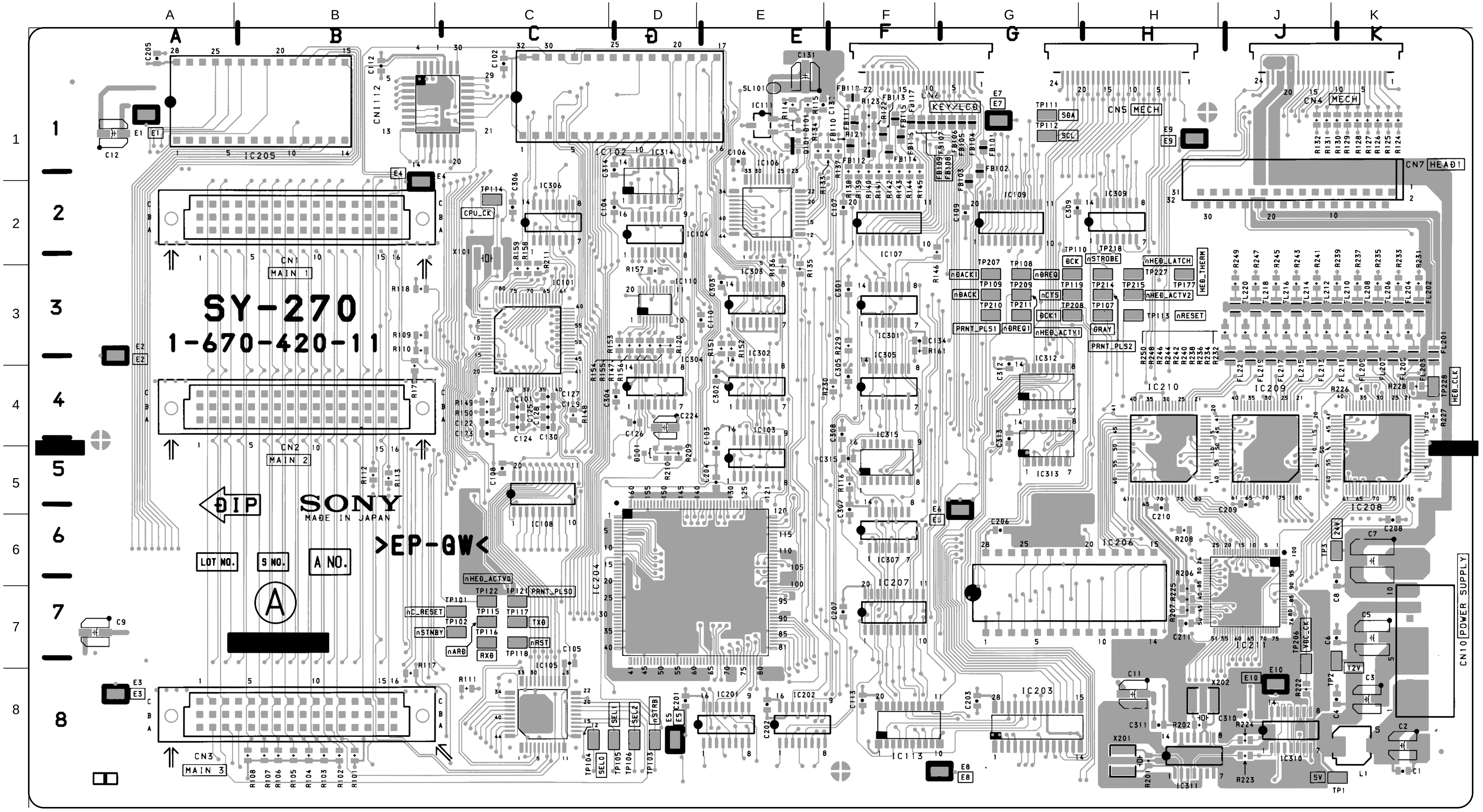
SUFFIX : -11


F
E
D
C
B
A
1
2
3
4
R347 C347 R344 C344
R346 C346 R345 C345
R343 C343 R342 C342
R339 C339 R341 C341
R338 C338 R340 C340
R337 C337 R330 C330
R336 C336 R331 C331
R335 C335 R332 C332
R334 C334 R333 C333
R367 C367 R364 C364
R366 C366 R365 C365
R363 C363 R362 C362
R359 C359 R361 C361
R358 C358 R360 C360
R357 C357 R350 C350
R356 C356 R351 C351
R355 C355 R352 C352
R354 C354 R353 C353
MADE IN JAPAN
>EP-(GW+GN)<
Ⓑ MEM-96 1-670-419-11
SSE 3
CN204
40 38 39 37
4 2 3 1
CL227
CL229
CL230
CL233
CL231
CL221
CL224
CL219
CL202
CL232
CL228
CL226
CL225
CL223
CL222
CL220
CL218
CL216
CL214
CL212
CL210
CL208
CL206
CL201
CL217
CL215
CL213
CL211
CL209
CL207
CL205
CL204
CL203

MEM-96 **-B SIDE-**

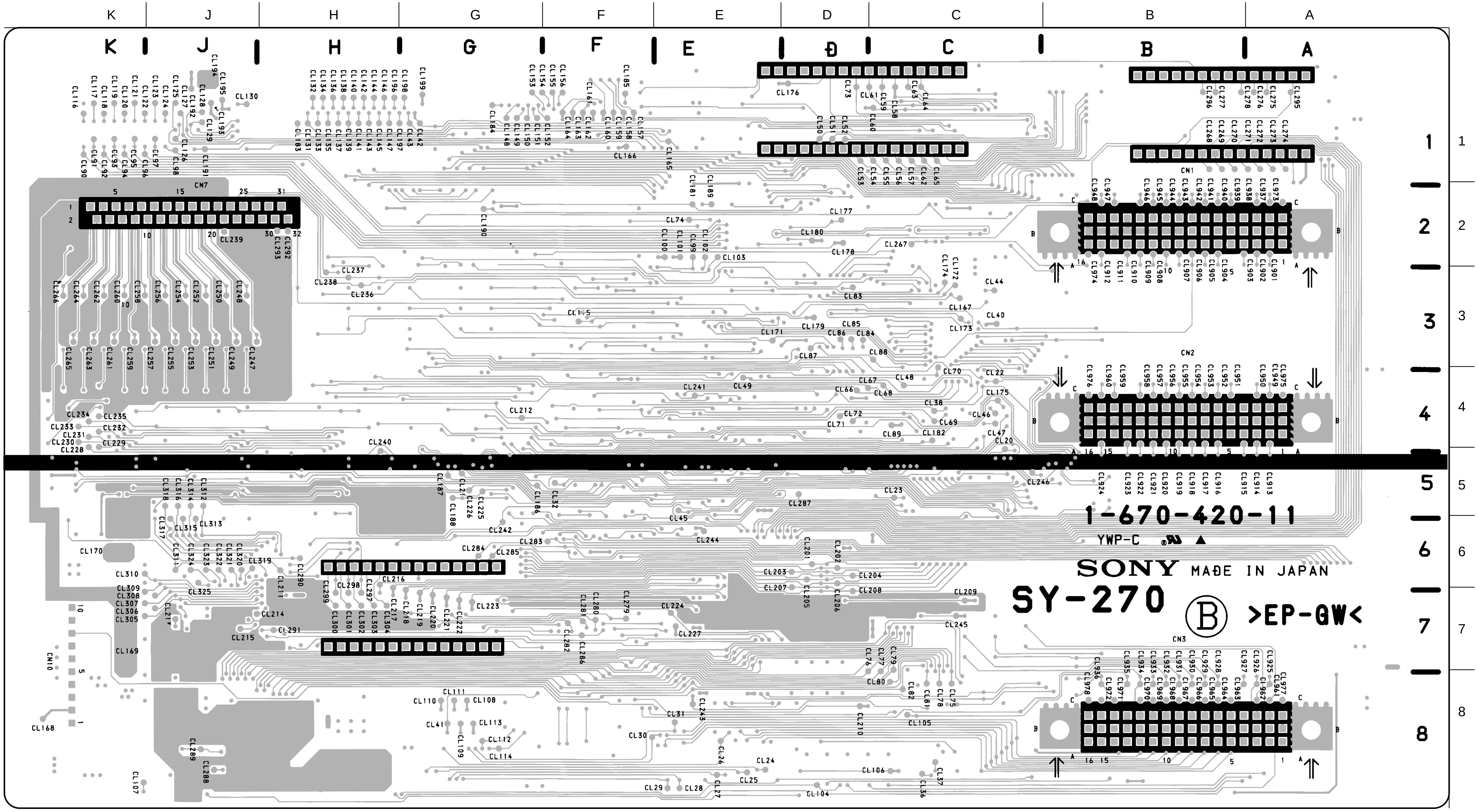
SUFFIX : -11


CN204 (1/2)
A
5V
BOE
BWE
BDD3
BDD2
BDD1
BDD0
GND
GOE
GWE
GDD3
GDD2
GDD1
GDD0
GND
GND
OPTION1
FMY-15
CN202
B3
B2
B1
B0
G3
G2
G1
G0
CN204 (2/2)
B
A0
A1
A2
A3
A4
A5
A6
A7
A8
A9
A10
A11
GND
RAS
GND
CAS0
CAS1
CAS2
CAS3
CAS4
FMY-15
CN202
IC211
HM5116400BS7GSEL
IC212
HM5116400BS7GSEL
IC213
HM5116400BS7GSEL
IC214
HM5116400BS7GSEL
IC215
HM5116400BS7GSEL
IC221
HM5116400BS7GSEL
IC222
HM5116400BS7GSEL
IC223
HM5116400BS7GSEL
IC224
HM5116400BS7GSEL
IC225
HM5116400BS7GSEL
VCC
I/O1
I/O2
WE
RAS
A11
A10
A0
A1
A2
A3
VSS
I/O4
I/O3
CAS
OE
A9
A8
A7
A6
A5
A4
C122 47 6.3V
C121 47 6.3V
C311 0.1
C312 0.1
C313 0.1
C314 0.1
C315 0.1
C321 0.1
C322 0.1
C323 0.1
C324 0.1
C325 0.1
R333 100
R332 100
R331 100
R330 100
R340 100
R341 100
R342 100
R345 100
R344 100
R347 100
R346 100
R343 100
R339 100
R338 100
R337 100
R336 100
R335 100
R334 100
C333 100p
C332 100p
C331 100p
C330 100p
C340 100p
C341 100p
C342 100p
C345 100p
C344 100p
C347 100p
C346 100p
C343 100p
C339 100p
C338 100p
C337 100p
C336 100p
C335 100p
C334 100p
R353 100
R352 100
R351 100
R350 100
R360 100
R361 100
R362 100
R365 100
R364 100
R367 100
R366 100
R363 100
R359 100
R358 100
R357 100
R356 100
R355 100
R354 100
C353 100p
C352 100p
C351 100p
C350 100p
C360 100p
C361 100p
C362 100p
C365 100p
C364 100p
C367 100p
C366 100p
C363 100p
C359 100p
C358 100p
C357 100p
C356 100p
C355 100p
C354 100p
MEM-96
B-UPD70-MEM96-SM
1
2
3
4
5


SY-270
1-670-420-11
SONY
MADE IN JAPAN
>EP-0W<
DIP
LOT NO.
S NO.
A NO.
CN1 MAIN 1
CN2 MAIN 2
CN3 MAIN 3
CN4 MECH
CN5 MECH
CN6 KEY/LCD
CN7 HEAD1
CN10 POWER SUPPLY
IC204
IC205
IC206
IC208
IC209
IC210
IC211
A B C D E F G H J K
1 2 3 4 5 6 7 8

SY-270 -A SIDE-

SUFFIX : -11


K
J
H
G
F
E
D
C
B
A
1
2
3
4
5
6
7
8
CN1
CN2
CN3
CN7
CN10
1-670-420-11
YWP-C
SONY MADE IN JAPAN
SY-270
B
>EP-GW<

SY-270 -B SIDE-

SUFFIX : -11

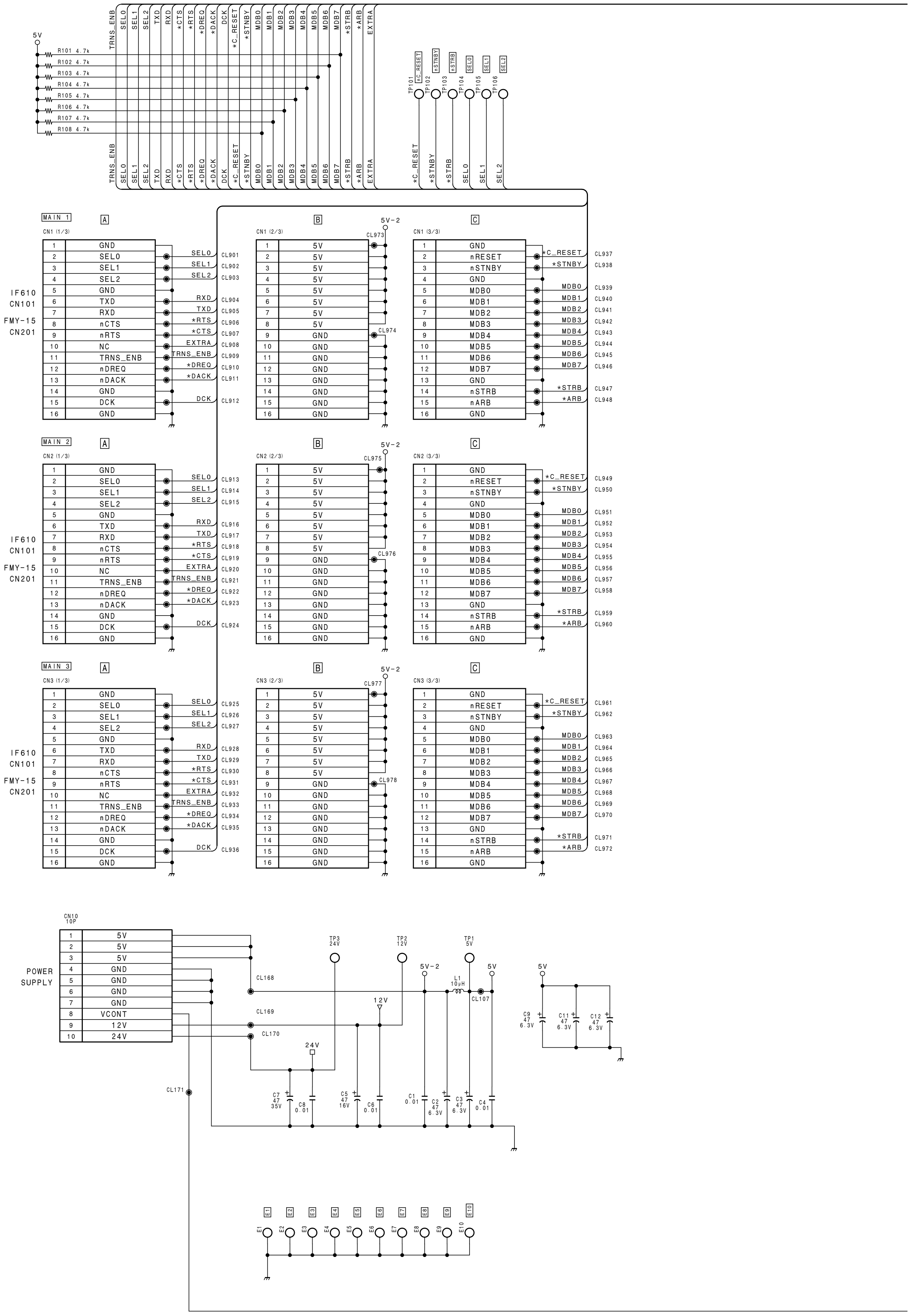
1

2

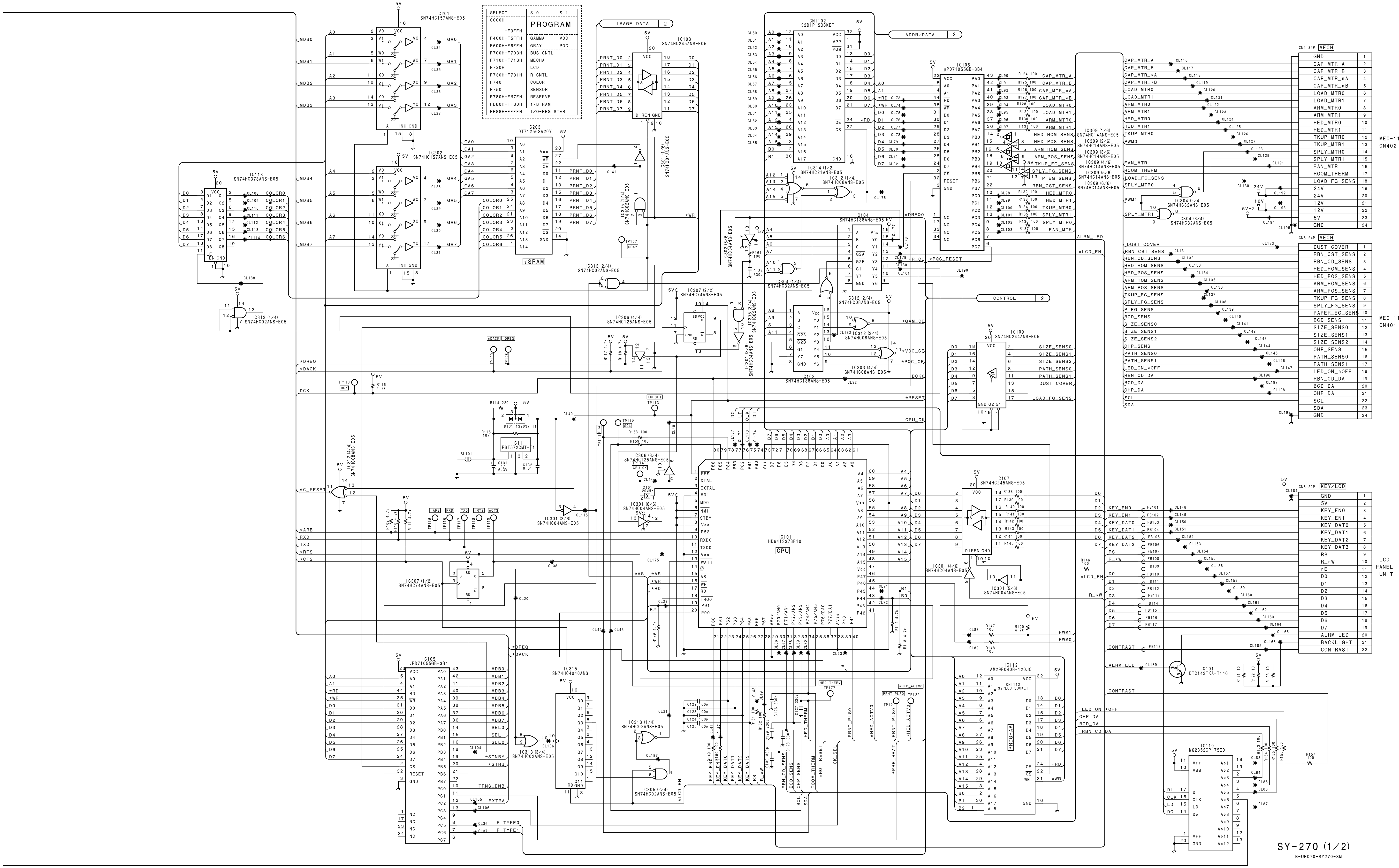
3

4

5


5V
R101 4.7k
R102 4.7k
R103 4.7k
R104 4.7k
R105 4.7k
R106 4.7k
R107 4.7k
R108 4.7k
TRNS_ENB
SEL0
SEL1
SEL2
TXD
RXD
*CTS
*RTS
*DREQ
*DACK
DCK
*C_RESET
*STNBY
MDB0
MDB1
MDB2
MDB3
MDB4
MDB5
MDB6
MDB7
*STRB
*ARB
EXTRA
TP101
TP102
TP103
TP104
TP105
TP106
MAIN 1
MAIN 2
MAIN 3
A
B
C
CN1 (1/3)
CN1 (2/3)
CN1 (3/3)
CN2 (1/3)
CN2 (2/3)
CN2 (3/3)
CN3 (1/3)
CN3 (2/3)
CN3 (3/3)
IF610
CN101
FMY-15
CN201
GND
nCTS
nRTS
NC
nDREQ
nDACK
nRESET
nSTNBY
nSTRB
nARB
5V-2
CL901
CL912
CL937
CL948
CL973
CL974
CL975
CL976
CL977
CL978
POWER
SUPPLY
CN10
10P
VCONT
12V
24V
CL168
CL169
CL170
CL171
CL107
TP3
24V
TP2
12V
TP1
5V
L1
10μH
C1
0.01
C2
47
6.3V
C3
47
6.3V
C4
0.01
C5
47
16V
C6
0.01
C7
47
35V
C8
0.01
C9
47
6.3V
C11
47
6.3V
C12
47
6.3V
E1
E2
E3
E4
E5
E6
E7
E8
E9
E10

A B C D E F G H


IC201 SN74HC157ANS-E05
IC202 SN74HC157ANS-E05
IC203 IDT71256SA20Y
γSRAM
IC108 SN74HC245ANS-E05
IMAGE DATA
CN1102 32DIP SOCKET
ADDR/DATA
IC106 μPD71055GB-3B4
IC113 SN74HC373ANS-E05
IC313 (4/4) SN74HC02ANS-E05
IC104 SN74HC138ANS-E05
IC103 SN74HC138ANS-E05
IC304 (1/4) SN74HC32ANS-E05
IC312 (1/4) SN74HC08ANS-E05
IC314 (1/2) SN74HC21ANS-E05
CONTROL
IC109 SN74HC244ANS-E05
IC309 SN74HC14ANS-E05
CN4 24P MECH
MEC-11 CN402
CN5 24P MECH
MEC-11 CN401
IC307 (2/2) SN74HC74ANS-E05
IC306 (4/4) SN74HC125ANS-E05
IC111 PST572CMT-T1
D101 1SS237-T1
X101 20MHz
IC101 HD6413378F10
CPU
IC107 SN74HC245ANS-E05
CN6 22P KEY/LCD
LCD PANEL UNIT
IC105 μPD71055GB-3B4
IC315 SN74HC4040ANS
IC112 AM29F040B-120JC
CN1112 32PLCC SOCKET
PROGRAM
Q101 DTC143TKA-T146
IC110 M62352GP-75ED
SELECT S=0 S=1
0000H–F3FFH PROGRAM
F400H–F5FFH GAMMA VDC
F600H–F6FFH GRAY PQC
F700H–F703H BUS CNTL
F710H–F713H MECHA
F720H LCD
F730H–F731H R CNTL
F740 COLOR
F750 SENSOR
F780H–FB7FH RESERVE
FB80H–FF80H 1kB RAM
FF88H–FFFFH I/O-REGISTER
SY-270 (1/2)
B-UPD70-SY270-SM
1
2
3
4
5
A
B
C
D
E
F
G
H

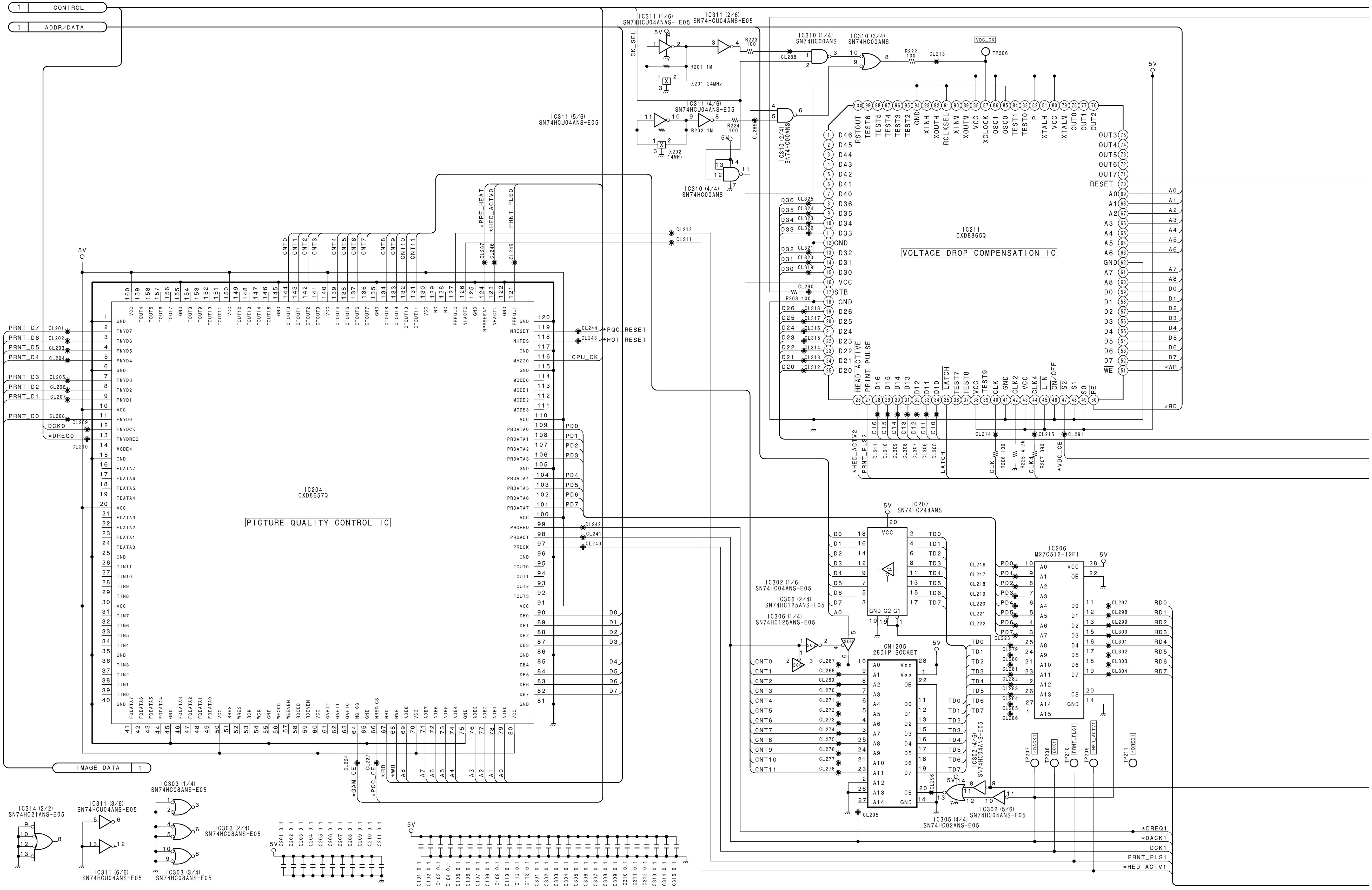
1

2

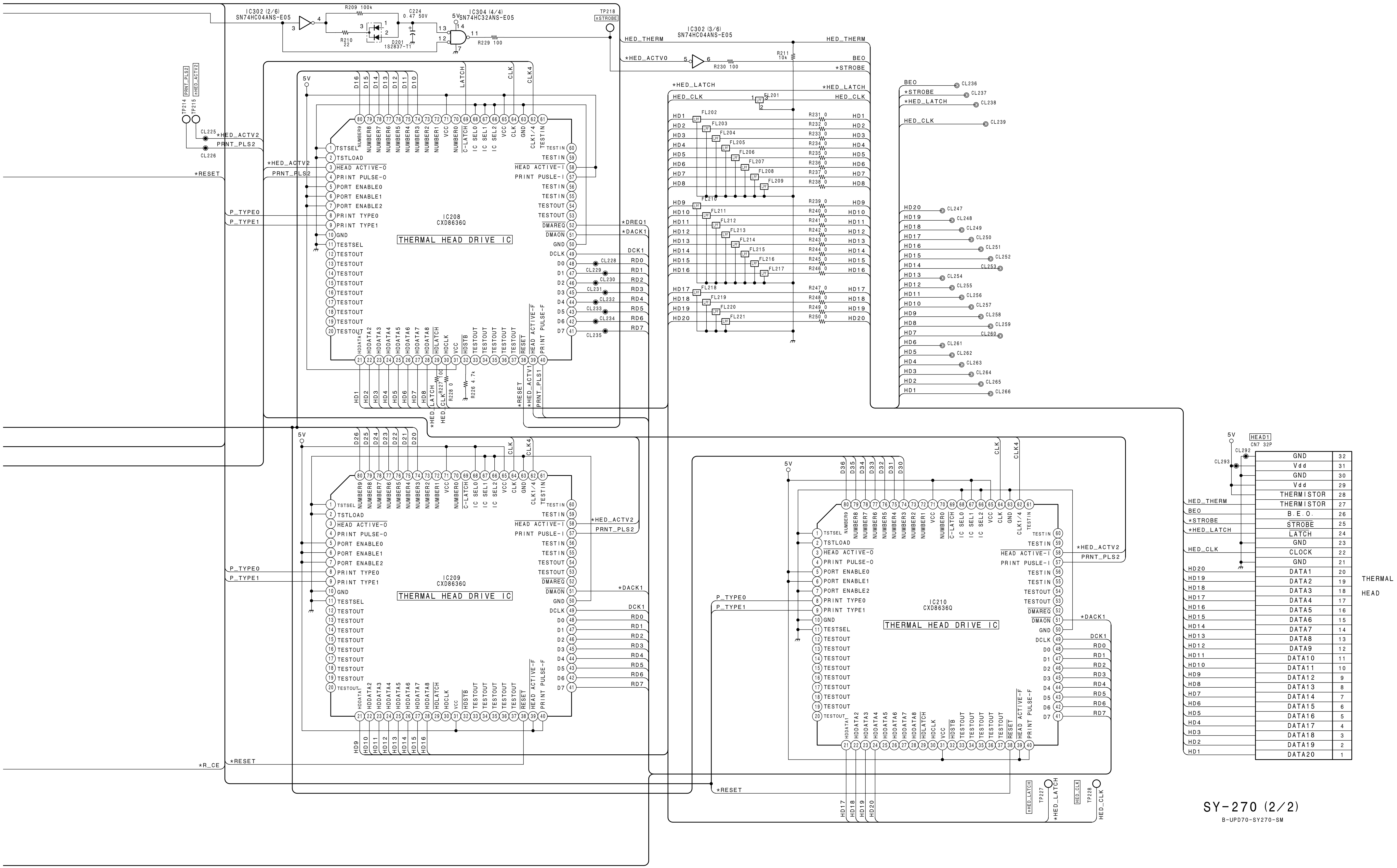
3

4

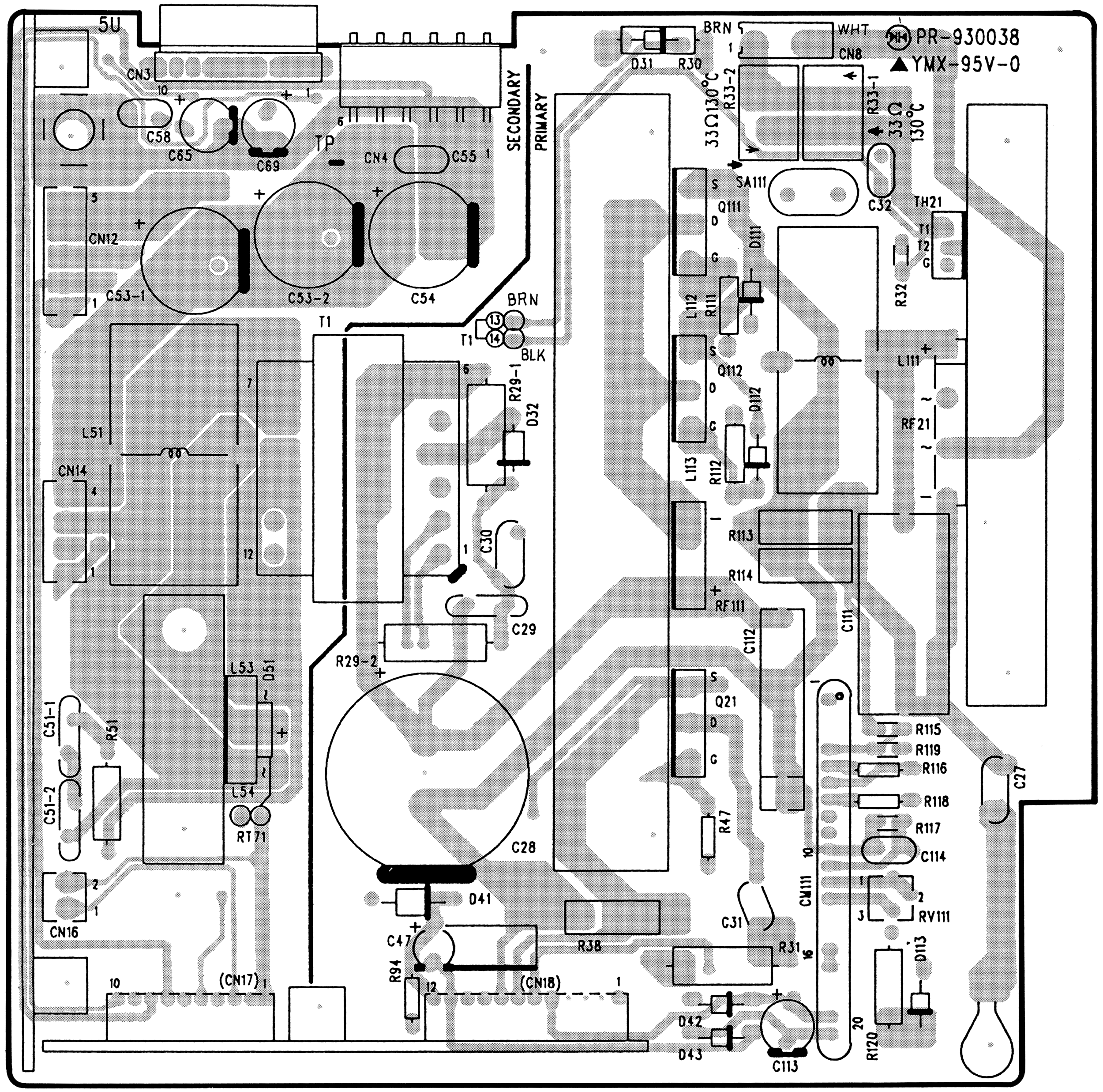
5


CONTROL
ADDR/DATA
IMAGE DATA
IC204
CXD8657Q
PICTURE QUALITY CONTROL IC
IC211
CXD8665Q
VOLTAGE DROP COMPENSATION IC
IC311 (1/6) SN74HCU04ANS-E05
IC311 (2/6) SN74HCU04ANS-E05
IC311 (4/6) SN74HCU04ANS-E05
IC311 (5/6) SN74HCU04ANS-E05
IC311 (3/6) SN74HCU04ANS-E05
IC311 (6/6) SN74HCU04ANS-E05
IC310 (1/4) SN74HC00ANS
IC310 (3/4) SN74HC00ANS
IC310 (2/4) SN74HC00ANS
IC310 (4/4) SN74HC00ANS
X201 24MHz
X202 14MHz
R201 1M
R202 1M
R223 100
R222 100
R224 100
R208 100
TP206
VDC_CK
IC207
SN74HC244ANS
IC206
M27C512-12F1
CN1205
28DIP SOCKET
IC302 (1/6) SN74HC04ANS-E05
IC302 (5/6) SN74HC04ANS-E05
IC302 (4/6) SN74HC04ANS-E05
IC306 (2/4) SN74HC125ANS-E05
IC306 (1/4) SN74HC125ANS-E05
IC305 (4/4) SN74HC02ANS-E05
IC314 (2/2) SN74HC21ANS-E05
IC303 (1/4) SN74HC08ANS-E05
IC303 (2/4) SN74HC08ANS-E05
IC303 (3/4) SN74HC08ANS-E05
*PQC_RESET
*HOT_RESET
CPU_CK
*GAM_CE
*PQC_CE
*RD
*WR
*HED_ACTV2
PRNT_PLS2
LATCH
CLK
*VDC_CE
TP207 *DACK1
TP208 DCK1
TP210 PRNT_PLS1
TP209 *HED_ACTV1
TP211 *DREQ1
*DREQ1
*DACK1
DCK1
PRNT_PLS1
*HED_ACTV1
5V

A B C D E F G H

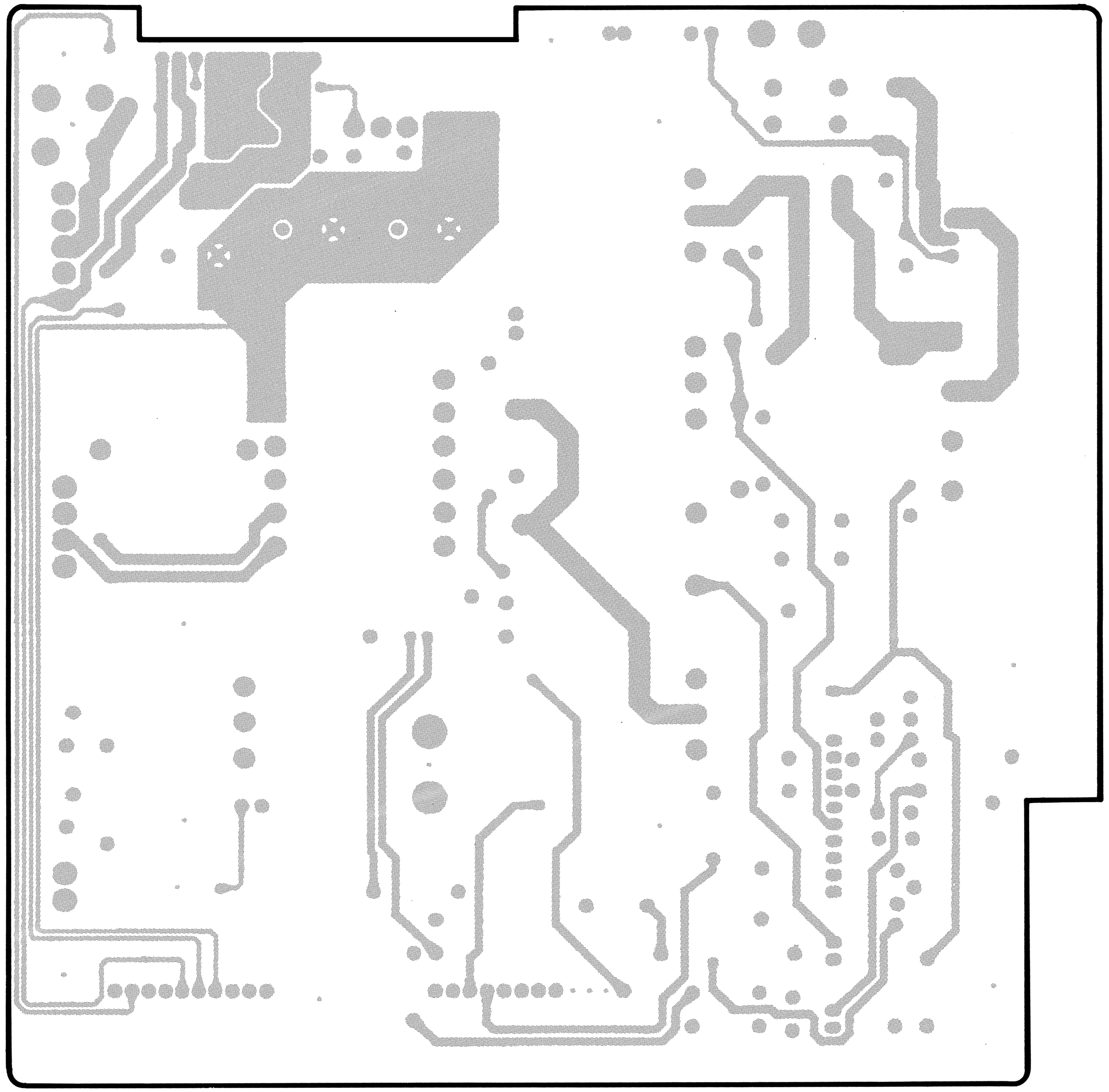

IC302 (2/6)
SN74HC04ANS-E05
R209 100k
C224 0.47 50V
IC304 (4/4)
SN74HC32ANS-E05
R210 22
D201 1S2837-T1
R229 100
TP218
*STROBE
HED_THERM
*HED_ACTV0
IC302 (3/6)
SN74HC04ANS-E05
R230 100
R211 10k
BEO
*STROBE
*HED_LATCH
HED_CLK
FL201
TP214 PRNT_PLS2
TP215 *HED_ACTV2
CL225
CL226
*HED_ACTV2
PRNT_PLS2
*RESET
P_TYPE0
P_TYPE1
5V
IC208
CXD8636Q
THERMAL HEAD DRIVE IC
TSTSEL
TSTLOAD
HEAD ACTIVE-O
PRINT PULSE-O
PORT ENABLE0
PORT ENABLE1
PORT ENABLE2
PRINT TYPE0
PRINT TYPE1
GND
TESTSEL
TESTOUT
TESTIN
HEAD ACTIVE-I
PRINT PULSE-I
DMAREQ
DMAON
DCLK
D0
D1
D2
D3
D4
D5
D6
D7
*DREQ1
*DACK1
DCK1
RD0
RD1
RD2
RD3
RD4
RD5
RD6
RD7
CL228
CL229
CL230
CL231
CL232
CL233
CL234
CL235
NUMBER9
NUMBER8
NUMBER7
NUMBER6
NUMBER5
NUMBER4
NUMBER3
NUMBER2
NUMBER1
VCC
NUMBER0
C-LATCH
IC SEL0
IC SEL1
IC SEL2
CLK
CLK1/4
HDDATA1
HDDATA2
HDDATA3
HDDATA4
HDDATA5
HDDATA6
HDDATA7
HDDATA8
HDLATCH
HDCLK
HDSTB
RESET
HEAD ACTIVE-F
PRINT PULSE-F
D16
D15
D14
D13
D12
D11
D10
LATCH
CLK4
HD1
HD2
HD3
HD4
HD5
HD6
HD7
HD8
*HED_LATCH
HED_CLK
R227 100
R228 0
R226 4.7k
*RESET
*HED_ACTV1
PRNT_PLS1
IC209
CXD8636Q
THERMAL HEAD DRIVE IC
D26
D25
D24
D23
D22
D21
D20
HD9
HD10
HD11
HD12
HD13
HD14
HD15
HD16
*R_CE
*RESET
IC210
CXD8636Q
THERMAL HEAD DRIVE IC
D36
D35
D34
D33
D32
D31
D30
HD17
HD18
HD19
HD20
TP227
*HED_LATCH
TP228
HED_CLK
FL202
FL203
FL204
FL205
FL206
FL207
FL208
FL209
FL210
FL211
FL212
FL213
FL214
FL215
FL216
FL217
FL218
FL219
FL220
FL221
R231 0
R232 0
R233 0
R234 0
R235 0
R236 0
R237 0
R238 0
R239 0
R240 0
R241 0
R242 0
R243 0
R244 0
R245 0
R246 0
R247 0
R248 0
R249 0
R250 0
CL236
CL237
CL238
CL239
CL247
CL248
CL249
CL250
CL251
CL252
CL253
CL254
CL255
CL256
CL257
CL258
CL259
CL260
CL261
CL262
CL263
CL264
CL265
CL266
HEAD1
CN7 32P
CL292
CL293
GND 32
Vdd 31
GND 30
Vdd 29
THERMISTOR 28
THERMISTOR 27
B.E.O. 26
STROBE 25
LATCH 24
GND 23
CLOCK 22
GND 21
DATA1 20
DATA2 19
DATA3 18
DATA4 17
DATA5 16
DATA6 15
DATA7 14
DATA8 13
DATA9 12
DATA10 11
DATA11 10
DATA12 9
DATA13 8
DATA14 7
DATA15 6
DATA16 5
DATA17 4
DATA18 3
DATA19 2
DATA20 1
THERMAL HEAD
1
2
3
4
5

SY-270 (2/2)
B-UPD70-SY270-SM


5U
CN3
10
1
C58
C65
C69
TP
6
CN4
C55
SECONDARY
PRIMARY
D31
R30
BRN
WHT
CN8
PR-930038
YMX-95V-0
33Ω130°C
R33-2
R33-1
33Ω
130°C
SA111
C32
TH21
T1
T2
G
S
Q111
D
D111
L112
R111
R32
CN12
5
C53-1
C53-2
C54
BRN
13
14
T1
BLK
T1
7
L51
CN14
4
12
6
R29-1
D32
Q112
D112
L113
R112
L111
RF21
C30
R113
R114
RF111
C29
C112
C111
R29-2
L53
D51
C51-1
R51
C51-2
L54
RT71
Q21
R115
R119
R116
R118
R117
C114
C27
C28
R47
CM111
RV111
CN16
2
D41
C47
R38
C31
R31
R94
(CN17)
(CN18)
D42
D43
C113
D113
R120
20
16

PR-930038 -A SIDE-

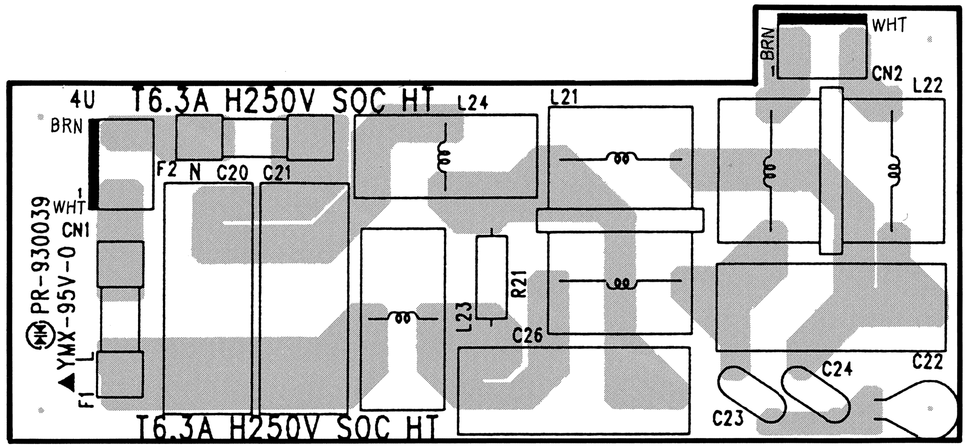
9-909-749-01



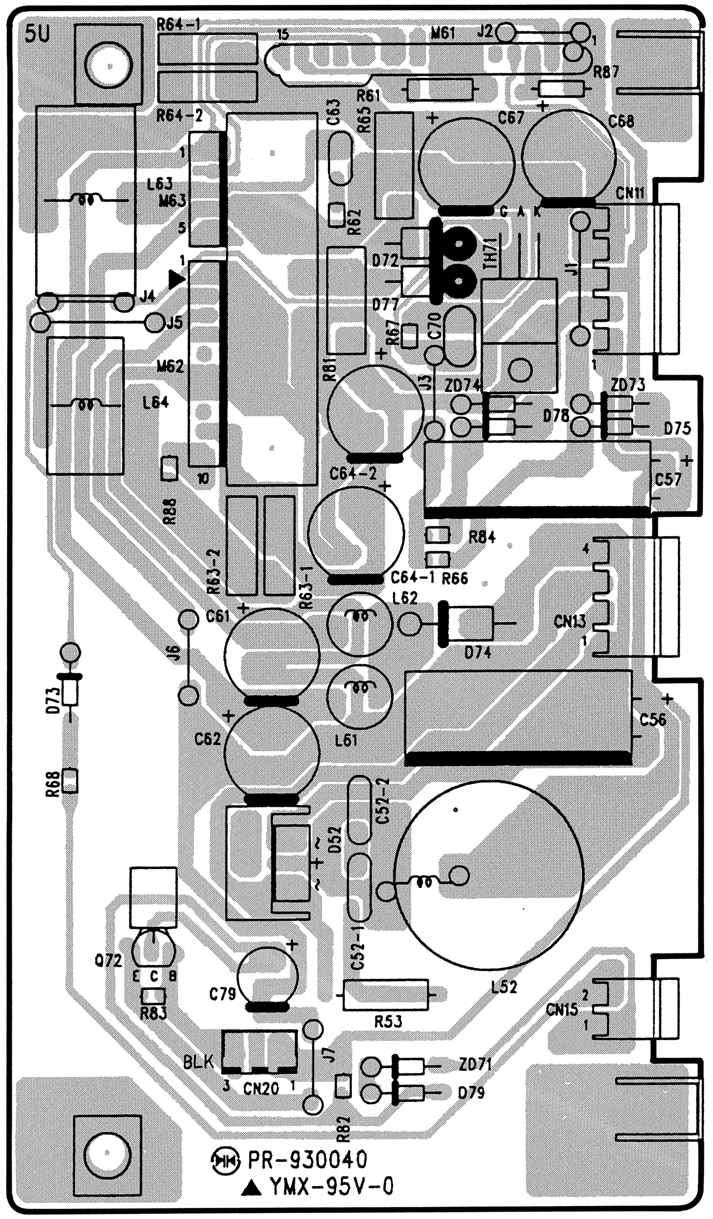
PR-930038 -B SIDE-

9-909-749-01

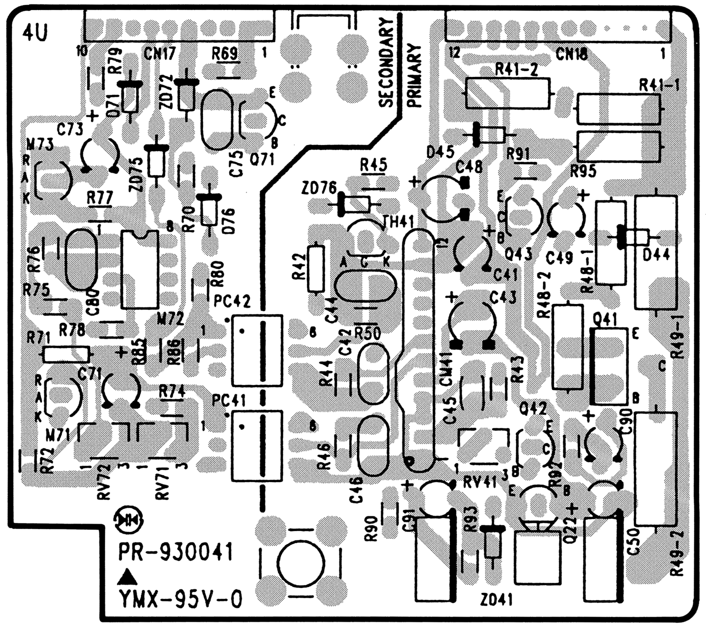
PR-930038, PR-930039, PR-930040, PR-930041


4U
T6.3A H250V SOC HT
PR-930039
YMX-95V-0
CN1
CN2
BRN
WHT
F1
F2

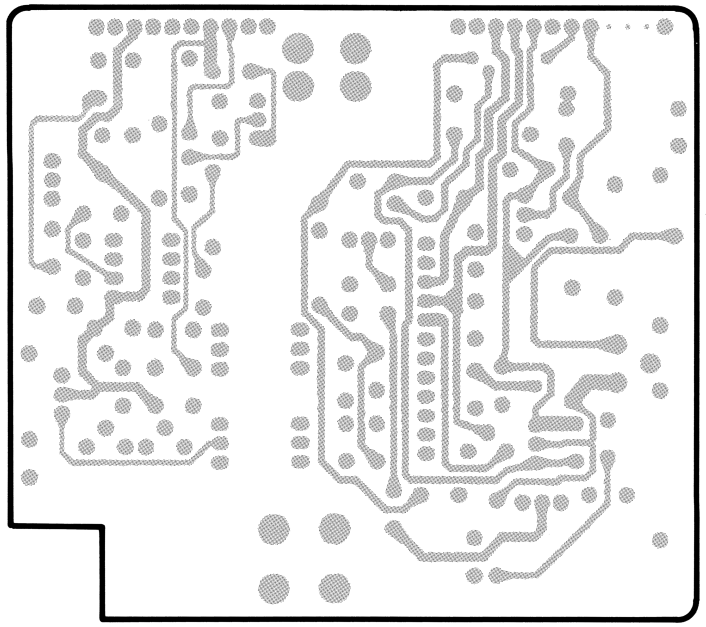
PR-930039 -A SIDE-
9-909-752-01


5U
PR-930040
YMX-95V-0
CN11
CN13
CN15
CN20
BLK

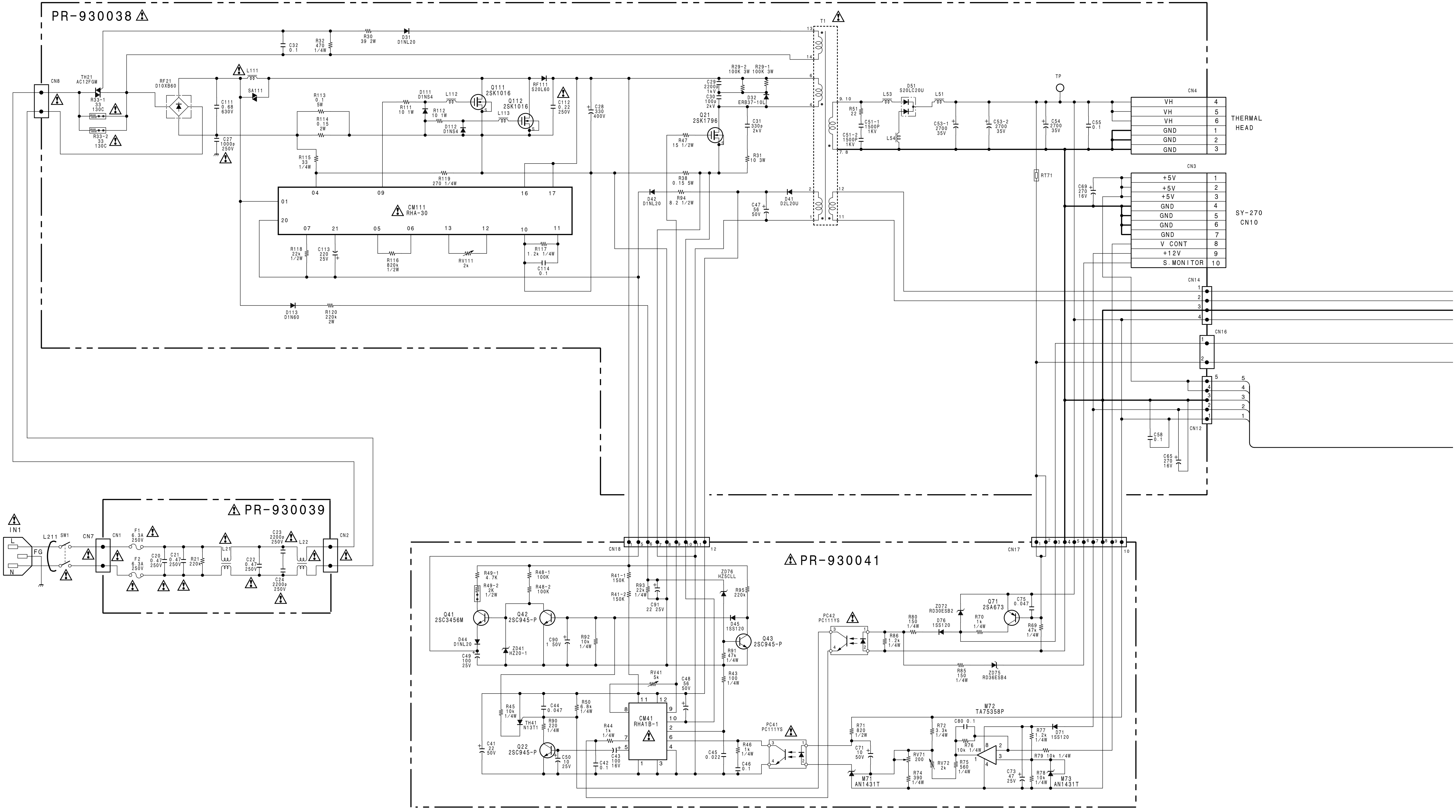
PR-930040 -A SIDE-
9-909-783-01


4U
SECONDARY
PRIMARY
CN17
CN18
PR-930041
YMX-95V-0

PR-930041 -A SIDE-
9-909-807-01

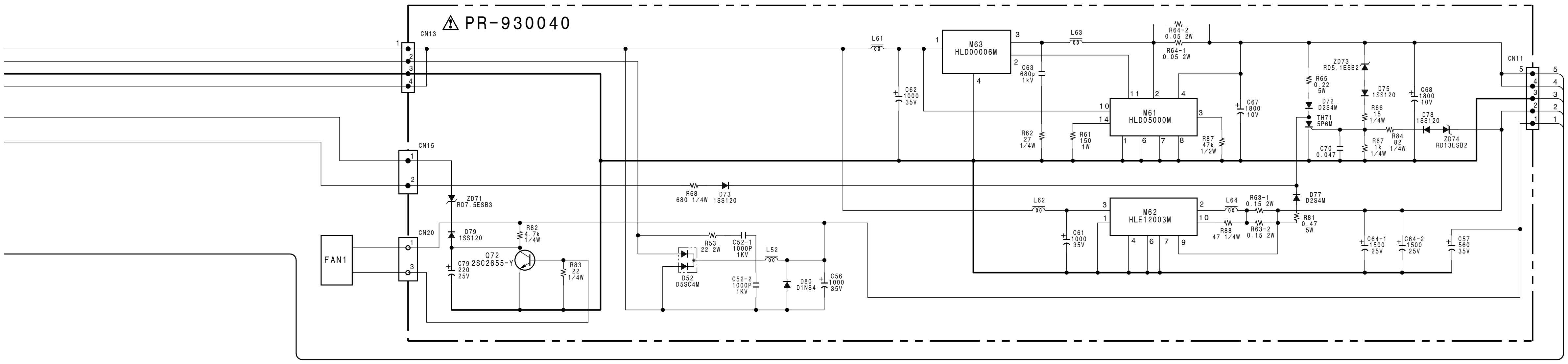


PR-930041 -B SIDE-
9-909-807-01


1
2
3
4
5
PR-930038
PR-930039
PR-930041
CN8
TH21 AC12FGM
R33-1 33 130C
R33-2 33 130C
RF21 D10XB60
L111
SA111
C111 0.68 630V
C27 1000p 250V
C32 0.1
R32 470 1/4W
R30 39 2W
D31 D1NL20
R113 0.1 5W
R114 0.15 2W
R115 33 1/4W
D111 D1NS4
R111 10 1W
R112 10 1W
D112 D1NS4
L112
L113
Q111 2SK1016
Q112 2SK1016
RF111 S20L60
C112 0.22 250V
C28 330 400V
R119 270 1/4W
CM111 RHA-30
R118 22k 1/2W
C113 220 25V
R116 820k 1/2W
RV111 2k
R117 1.2k 1/4W
C114 0.1
D113 D1N60
R120 220k 2W
T1
R29-2 100K 3W
R29-1 100K 3W
C29 2200p 1kV
C30 100p 2kV
D32 ERB37-10L
C31 330p 2kV
Q21 2SK1796
R47 15 1/2W
R31 10 3W
R38 0.15 5W
R94 8.2 1/2W
D42 D1NL20
C47 56 50V
D41 D2L20U
R51 22
C51-1 1500P 1KV
C51-2 1500P 1KV
L53
D51 S20LC20U
L51
L54
C53-1 2700 35V
C53-2 2700 35V
TP
C54 2700 35V
C55 0.1
RT71
C69 270 16V
CN4
VH 4
VH 5
VH 6
GND 1
GND 2
GND 3
THERMAL HEAD
CN3
+5V 1
+5V 2
+5V 3
GND 4
GND 5
GND 6
GND 7
V CONT 8
+12V 9
S.MONITOR 10
SY-270 CN10
CN14
CN16
CN12
C58 0.1
C65 270 16V
IN1
FG
L211
SW1
CN7
CN1
F1 6.3A 250V
F2 6.3A 250V
C20 0.47 250V
C21 0.47 250V
R21 220k
L21
C22 0.47 250V
C23 2200p 250V
C24 2200p 250V
L22
CN2
CN18
CN17
R49-1 4.7K
R49-2 2K 1/2W
R48-1 100K
R48-2 100K
Q41 2SC3456M
Q42 2SC945-P
D44 D1NL20
ZD41 HZ20-1
C49 100 25V
C90 1 50V
R92 10k 1/4W
R41-1 150K
R41-2 150K
R93 22k 1/4W
C91 22 25V
ZD76 HZ5CLL
R95 220k
D45 1SS120
Q43 2SC945-P
R91 47k 1/4W
R43 100 1/4W
RV41 5k
C48 56 50V
R45 10k 1/4W
TH41 N13T1
C44 0.047
R90 220 1/4W
R50 6.8k 1/4W
CM41 RHA1B-1
R44 1k 1/4W
C41 22 50V
Q22 2SC945-P
C50 10 25V
C42 0.1
C43 100 16V
C45 0.022
R46 1k 1/4W
C46 0.1
PC41 PC111YS
PC42 PC111YS
R80 150 1/4W
D76 1SS120
ZD72 RD30ESB2
R70 1k 1/4W
Q71 2SA673
C75 0.047
R69 47k 1/4W
R86 1.2k 1/4W
R85 150 1/4W
ZD75 RD36ESB4
M72 TA75358P
R71 820 1/2W
C71 10 50V
M71 AN1431T
RV71 200
R74 390 1/4W
R72 3.3k 1/4W
C80 0.1
R76 10k 1/4W
RV72 2k
R75 560 1/4W
R77 1.2k 1/4W
D71 1SS120
R79 10k 1/4W
C73 47 25V
R78 10k 1/4W
M73 AN1431T

1

2


⚠ PR-930040
CN13
1
2
3
4
CN15
1
2
CN20
1
3
FAN1
ZD71
RD7.5ESB3
D79
1SS120
R82
4.7k
1/4W
Q72
2SC2655-Y
C79
220
25V
R83
22
1/4W
R68
680 1/4W
D73
1SS120
R53
22 2W
C52-1
1000P
1KV
D52
D5SC4M
C52-2
1000P
1KV
L52
D80
D1NS4
C56
1000
35V
L61
C62
1000
35V
M63
HLD00006M
1
2
3
4
C63
680p
1kV
L63
R62
27
1/4W
M61
HLD05000M
11
2
4
10
14
3
1
6
7
8
R61
150
1W
R87
47k
1/2W
R64-2
0.05 2W
R64-1
0.05 2W
C67
1800
10V
R65
0.22
5W
D72
D2S4M
TH71
5P6M
C70
0.047
ZD73
RD5.1ESB2
D75
1SS120
R66
15
1/4W
R67
1k
1/4W
R84
82
1/4W
C68
1800
10V
D78
1SS120
ZD74
RD13ESB2
CN11
5
4
3
2
1
L62
C61
1000
35V
M62
HLE12003M
3
1
2
10
4
6
7
9
L64
R63-1
0.15 2W
R88
47 1/4W
R63-2
0.15 2W
D77
D2S4M
R81
0.47
5W
C64-1
1500
25V
C64-2
1500
25V
C57
560
35V

3

SWITCHING
REGULATOR
B-UPD70-SR-SM

4

5

このマニュアルに記載されている事柄の著作権は当社にあり，説明内容は機器購入者の使用を目的としています。従って，当社の許可なしに無断で複写したり，説明内容(操作，保守等)と異なる目的で本マニュアルを使用することを禁止します。

The material contained in this manual consists of information that is the property of Sony Corporation and is intended solely for use by the purchasers of the equipment described in this manual.
Sony Corporation expressly prohibits the duplication of any portion of this manual or the use thereof for any purpose other than the operation or maintenance of the equipment described in this manual without the express written permission of Sony Corporation.

Le matériel contenu dans ce manuel consiste en informations qui sont la propriété de Sony Corporation et sont destinées exclusivement à l’usage des acquéreurs de l’équipement décrit dans ce manuel.
Sony Corporation interdit formellement la copie de quelque partie que ce soit de ce manuel ou son emploi pour tout autre but que des opérations ou entretiens de l’équipement à moins d’une permission écrite de Sony Corporation.

Das in dieser Anleitung enthaltene Material besteht aus informationen, die Eigentum der Sony Corporation sind, und ausschließlich zum Gebrauch durch den Käufer der in dieser Anleitung beschriebenen Ausrüstung bestimmt sind.
Die Sony Corporation untersagt ausdrücklich die Vervielfältigung jeglicher Teile dieser Anleitung oder den Gebrauch derselben für irgendeinen anderen Zweck als die Bedienung oder Wartung der in dieser Anleitung beschriebenen Ausrüstung ohne ausdrückliche schriftliche Erlaubnis der Sony Corporation.

Printed in Japan

UP-D70/D70A (J, UC, CE) J, E
9-977-350-21

Sony Corporation
Broadcasting & Professional Systems Company

1998. 6 22

©1998

Published by Global Support Promotion Dept.